

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070419\
 Data File : VN056590.D
 Acq On : 3 Jul 2019 17:28
 Operator : JC/SP
 Sample : VN0704WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0704WBL01

Quant Time: Jul 03 22:50:32 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

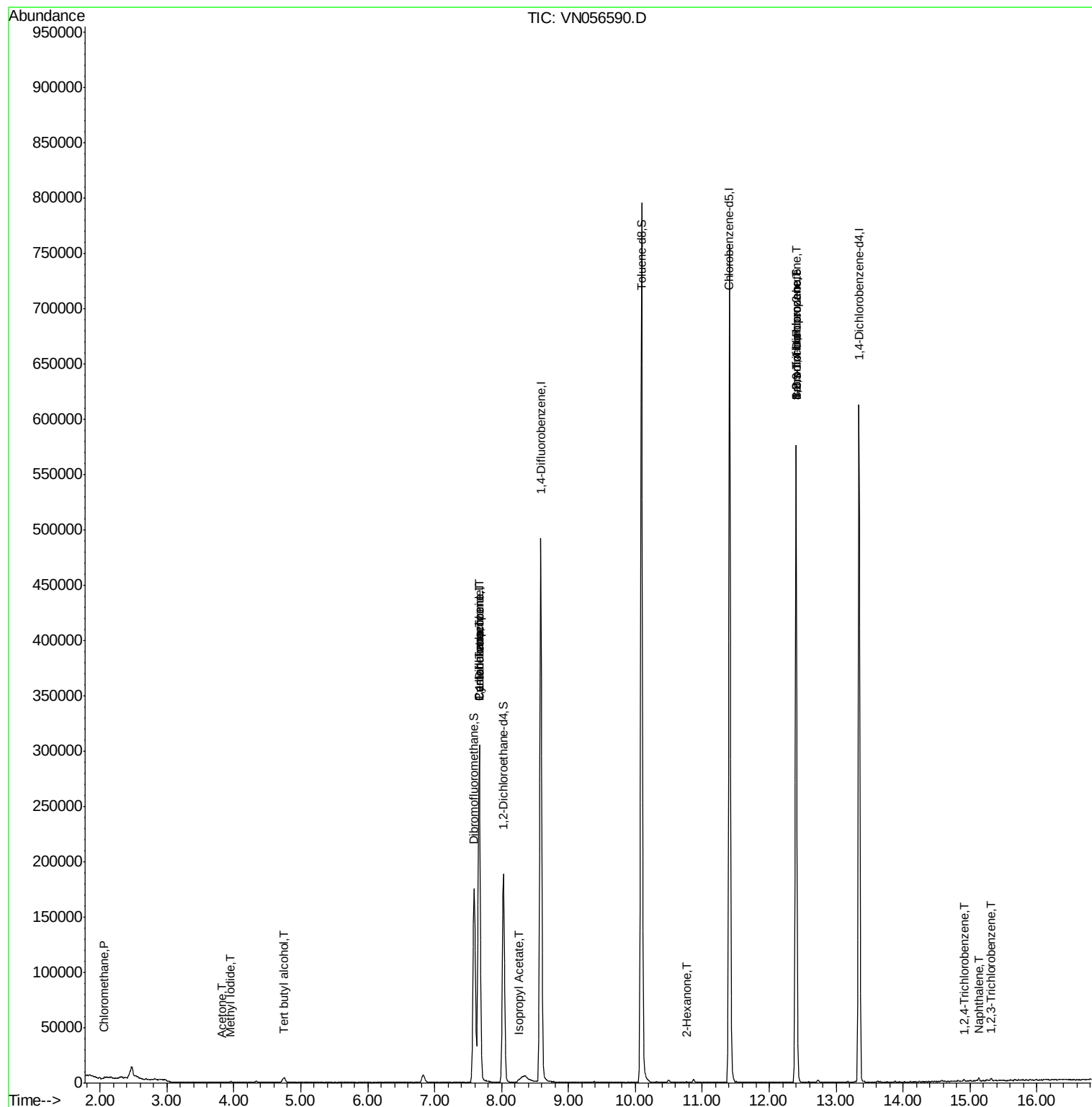
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	271685	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	467424	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	466921	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	178087	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	157075	52.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.34%	
35) Dibromofluoromethane	7.59	113	136639	46.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.72%	
50) Toluene-d8	10.09	98	583090	51.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.78%	
62) 4-Bromofluorobenzene	12.40	95	205341	54.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.58%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.06	50	801	0.256	ug/l #	84
10) Methyl Iodide	3.95	142	1178	0.349	ug/l #	69
11) Tert butyl alcohol	4.74	59	3203	6.316	ug/l #	74
16) Acetone	3.84	43	665	0.441	ug/l #	42
18) Methyl Acetate	4.33	43	1026	Below Cal	#	68
20) Methylene Chloride	4.55	84	148	Below Cal	#	24
31) Cyclohexane	7.66	56	4723	1.016	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	18028	4.382	ug/l #	49
38) Carbon Tetrachloride	7.67	117	23837	6.626	ug/l #	14
43) Isopropyl Acetate	8.26	43	1435	0.230	ug/l #	54
59) 2-Hexanone	10.76	43	606	0.205	ug/l #	30
71) Bromoform	12.40	173	1655	3.749	ug/l #	1
73) Isopropylbenzene	12.25	105	422	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	96069	26.016	ug/l #	100
79) 2-Chlorotoluene	12.67	91	328	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.72	105	234	Below Cal	#	47
81) trans-1,4-Dichloro-2-buten	12.40	75	96069	92.465	ug/l #	8
83) tert-Butylbenzene	12.99	119	207	Below Cal	#	28
93) 1,2,4-Trichlorobenzene	14.91	180	855	5.858	ug/l #	60
94) Hexachlorobutadiene	15.00	225	143	Below Cal	#	14
95) Naphthalene	15.13	128	2432	5.512	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.31	180	1086	4.787	ug/l	86

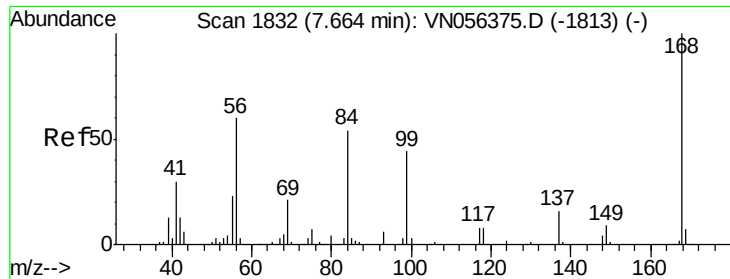
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jun 21 03:45:40 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: VN056590.D

Acq: 3 Jul 2019 17:28

Instrument :

MSVOA_N

ClientSampled :

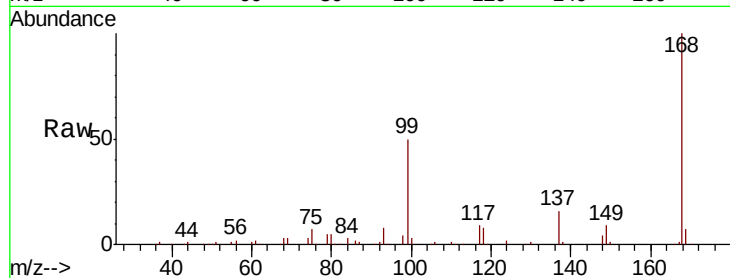
VN0704WBL01

Tot Ion:168 Resp: 271685

Ion Ratio Lower Upper

168 100

99 49.5 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN056375.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN056375.D (-1813) (-)

7.67

120000

100000

80000

60000

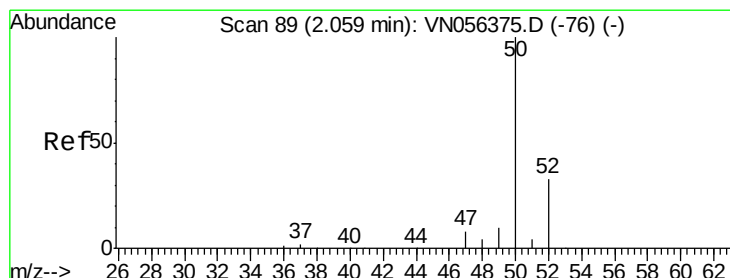
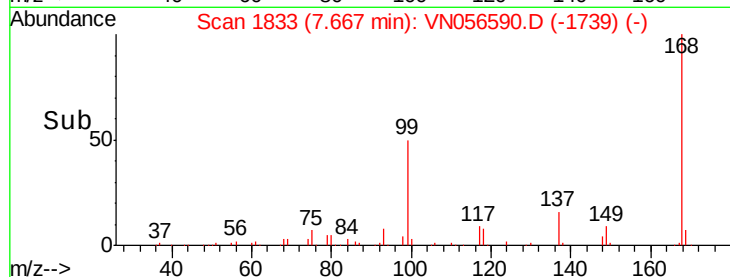
40000

20000

0

Time-->

7.60 7.70



#3

Chloromethane

Concen: 0.256 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN056590.D

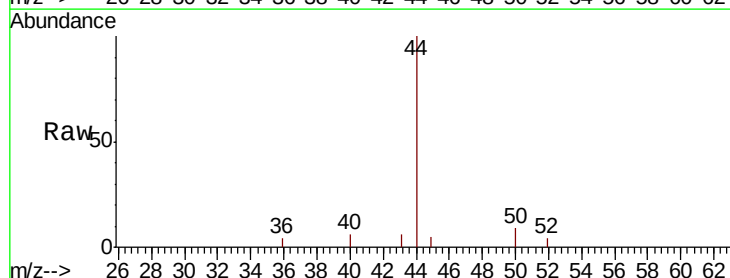
Acq: 3 Jul 2019 17:28

Tgt Ion: 50 Resp: 801

Ion Ratio Lower Upper

50 100

52 42.3 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VN056375.D (-76) (-)

Ion 51.90 (51.60 to 52.60): VN056375.D (-76) (-)

2.06

400

300

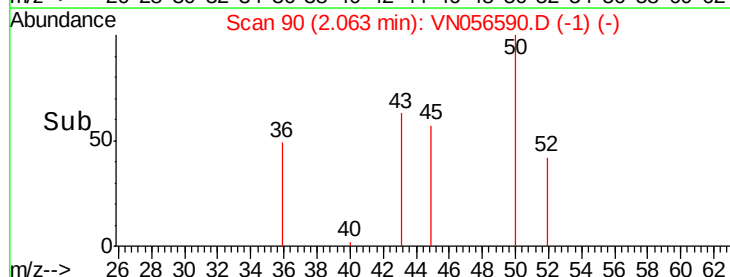
200

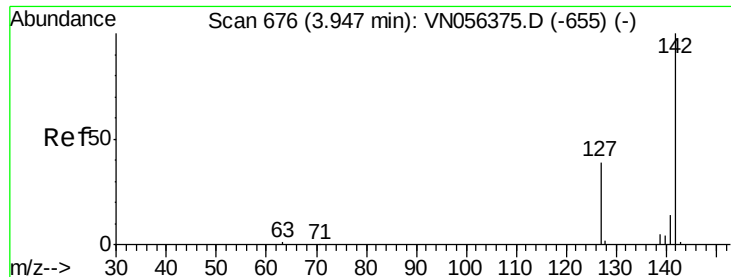
100

0

Time-->

2.05 2.10

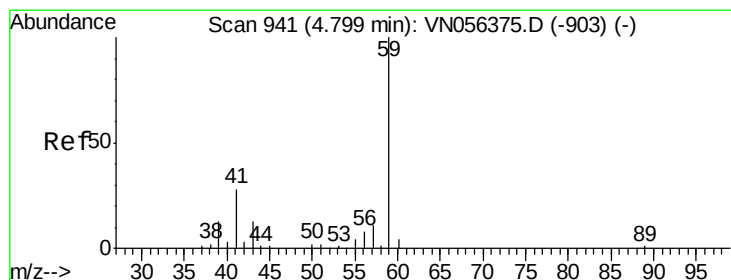
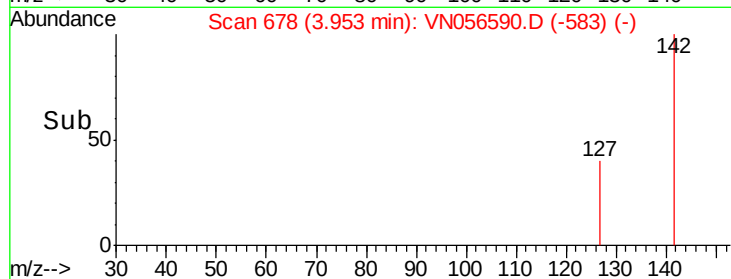
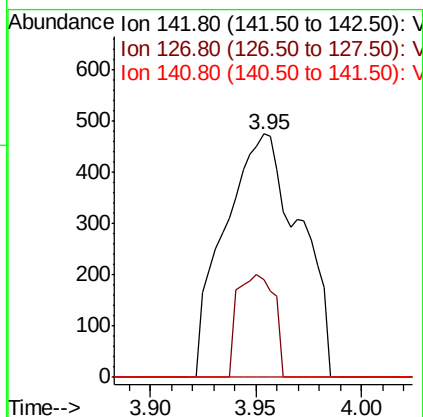
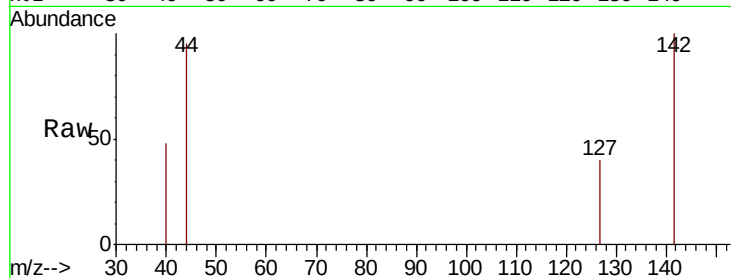




#10
Methvl Iodide
Concen: 0.349 ug/l
RT: 3.95 min Scan# 678
Delta R.T. 0.01 min
Lab File: VN056590.D
Acq: 3 Jul 2019 17:28

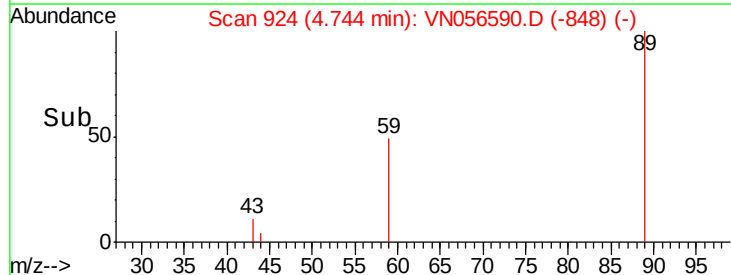
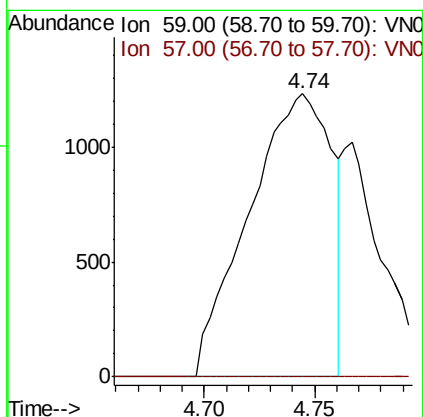
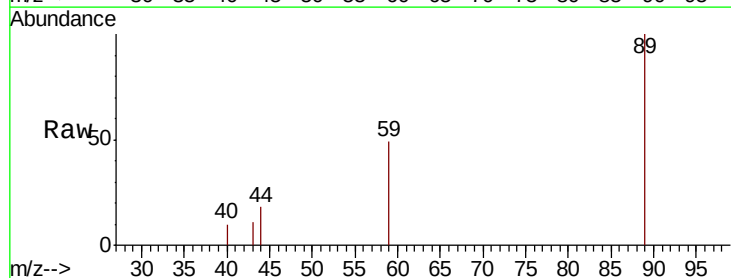
Instrument :
MSVOA_N
ClientSampleId :
VN0704WBL01

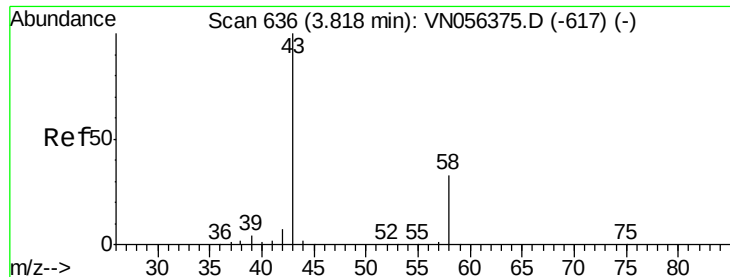
Tot Ion:142 Resp: 1178
Ion Ratio Lower Upper
142 100
127 20.6 30.6 46.0#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 6.316 ug/l
RT: 4.74 min Scan# 924
Delta R.T. -0.05 min
Lab File: VN056590.D
Acq: 3 Jul 2019 17:28

Tgt Ion: 59 Resp: 3203
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#





#16

Acetone

Concen: 0.441 ug/l

RT: 3.84 min Scan# 642

Delta R.T. 0.02 min

Lab File: VN056590.D

Acq: 3 Jul 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

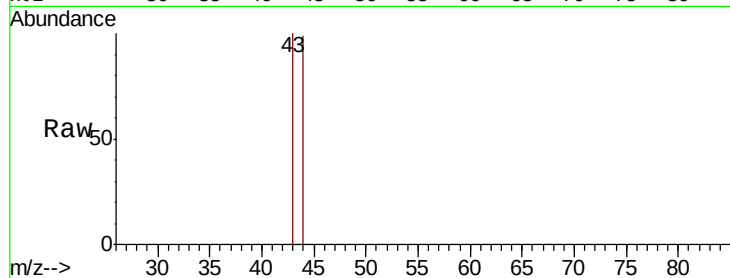
VN0704WBL01

Tot Ion: 43 Resp: 665

Ion Ratio Lower Upper

43 100

58 0.0 26.4 39.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.84

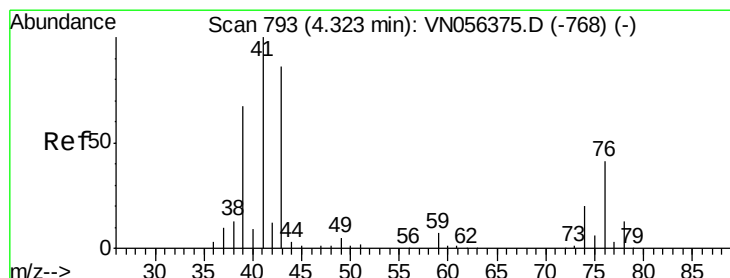
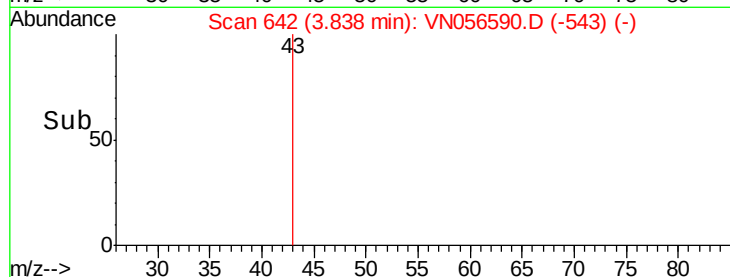
300

200

100

0

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN056590.D

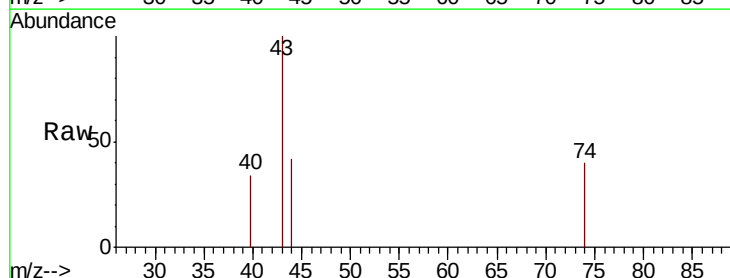
Acq: 3 Jul 2019 17:28

Tgt Ion: 43 Resp: 1026

Ion Ratio Lower Upper

43 100

74 39.7 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

800

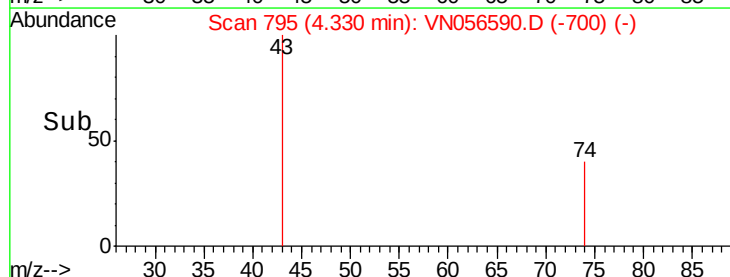
600

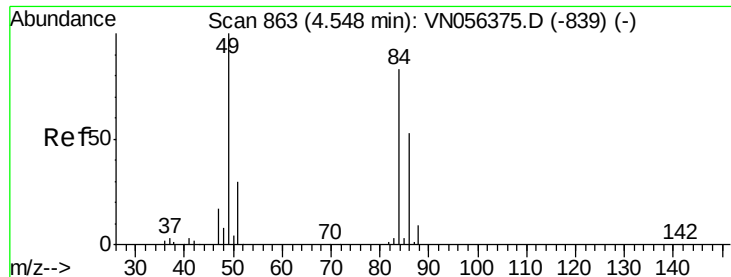
400

200

0

Time-->

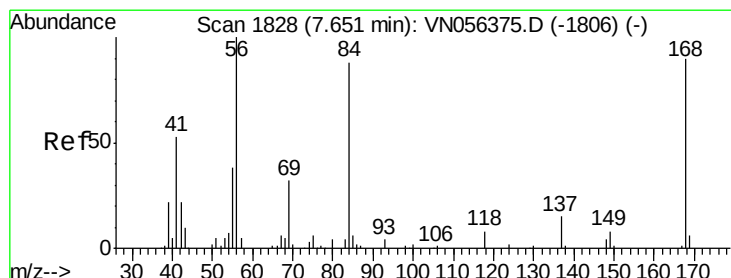
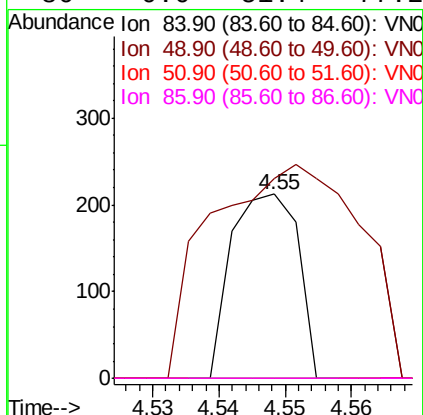
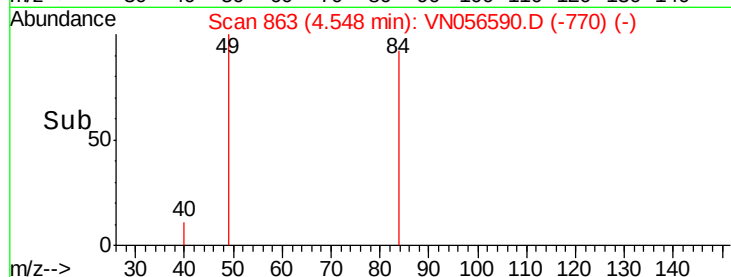
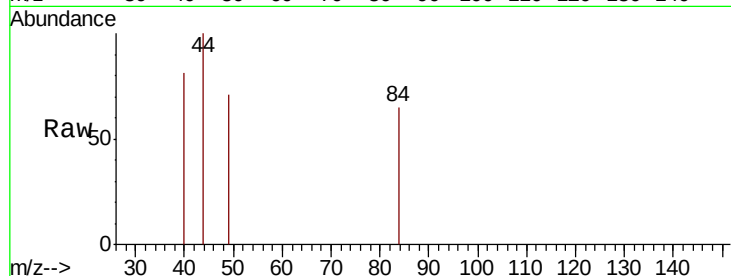




#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN056590.D
Acq: 3 Jul 2019 17:28

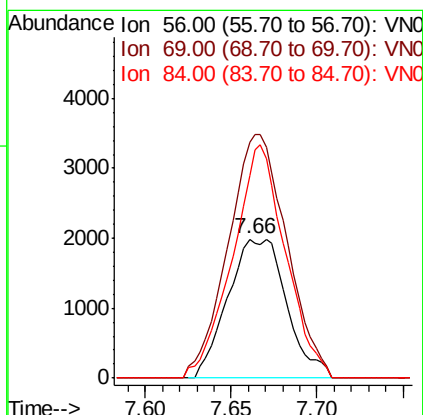
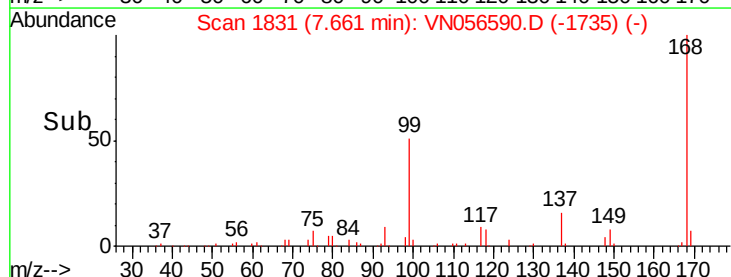
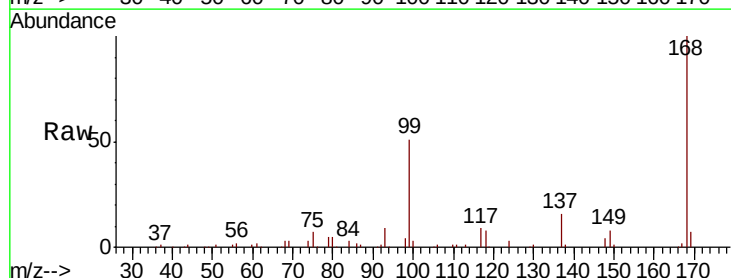
Instrument :
MSVOA_N
ClientSampleId :
VN0704WBL01

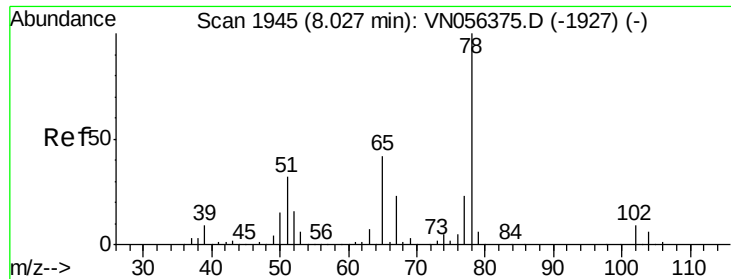
Tot Ion: 84 Resp: 148
Ion Ratio Lower Upper
84 100
49 34.0 96.4 144.6#
51 0.0 28.6 43.0#
86 0.0 51.4 77.2#



#31
Cyclohexane
Concen: 1.016 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056590.D
Acq: 3 Jul 2019 17:28

Tgt Ion: 56 Resp: 4723
Ion Ratio Lower Upper
56 100
69 169.7 25.8 38.6#
84 145.9 69.4 104.0#

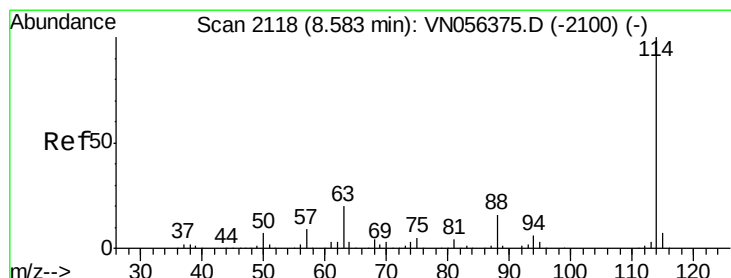
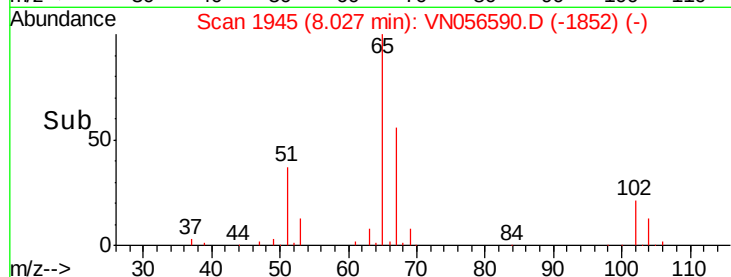
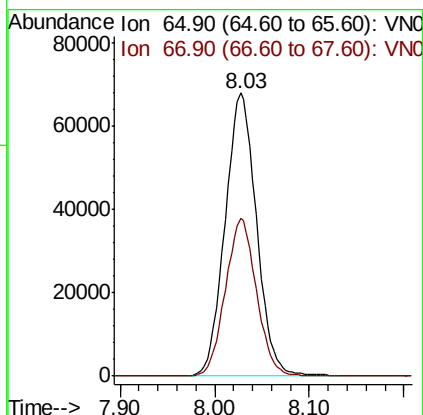
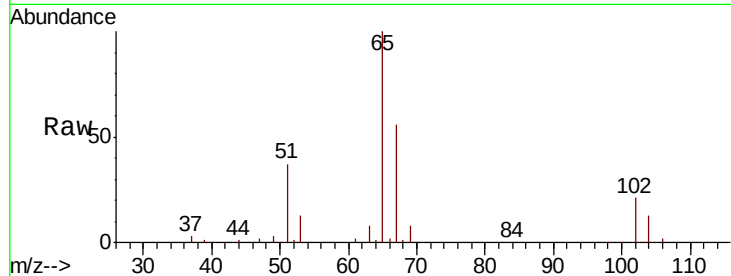




#33
 1,2-Dichloroethane-d4
 Concen: 52.165 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056590.D
 Acq: 3 Jul 2019 17:28

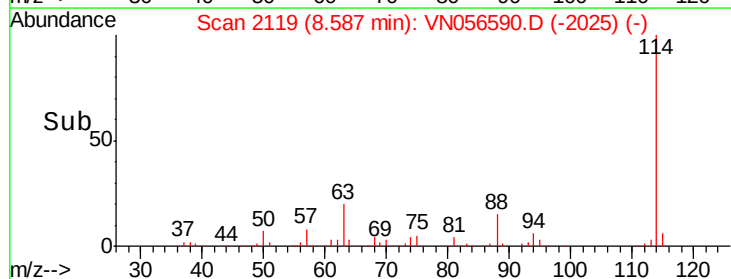
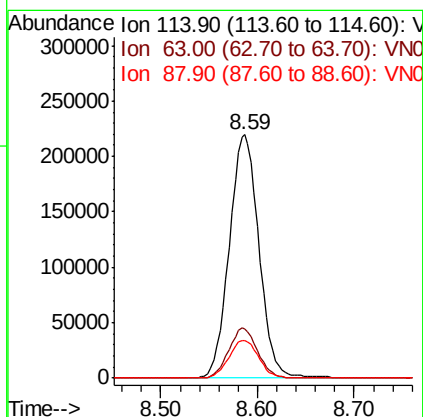
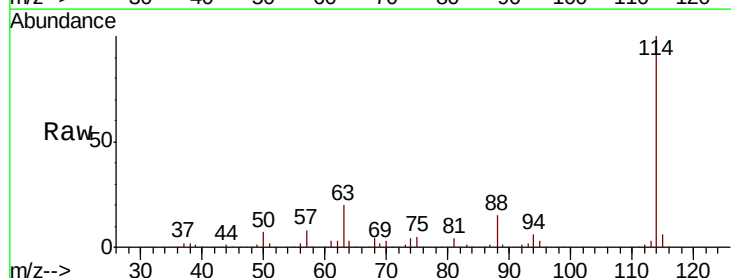
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0704WBL01

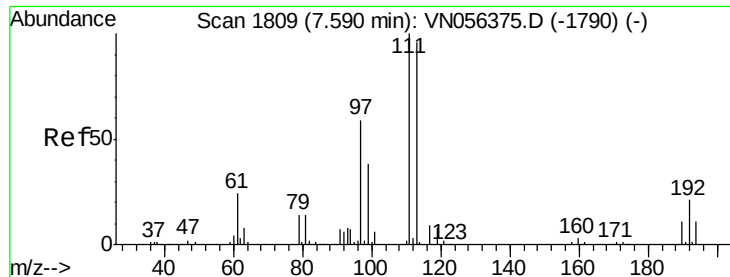
Tot Ion: 65 Resp: 157075
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056590.D
 Acq: 3 Jul 2019 17:28

Tgt Ion: 114 Resp: 467424
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 39.2
 88 15.4 0.0 31.4





#35

Dibromofluoromethane

Concen: 46.859 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056590.D

Acq: 3 Jul 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

VN0704WBL01

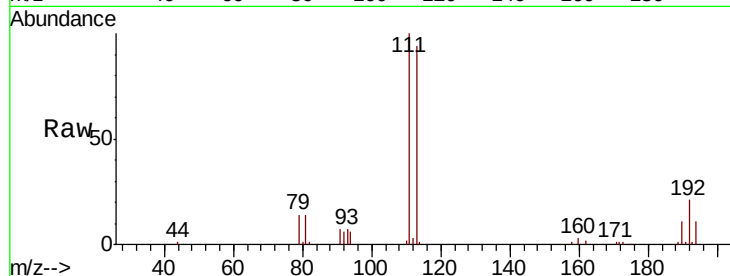
Tot Ion:113 Resp: 136639

Ion Ratio Lower Upper

113 100

111 104.0 82.9 124.3

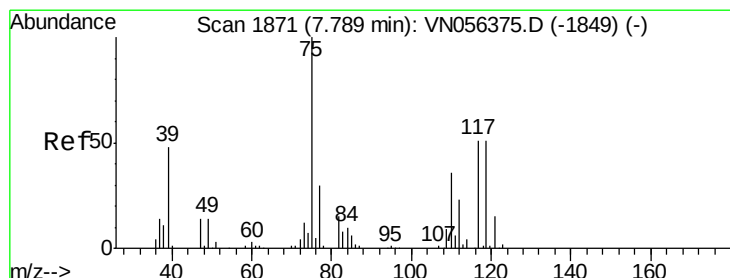
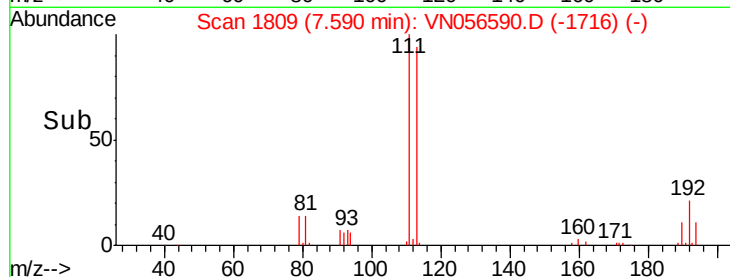
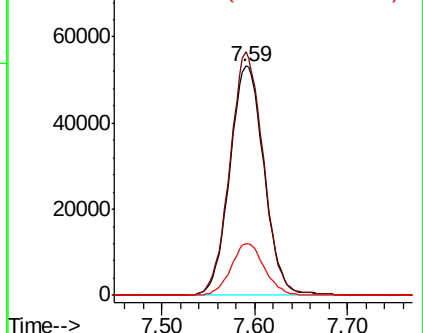
192 21.8 17.7 26.5



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: 4.382 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.12 min

Lab File: VN056590.D

Acq: 3 Jul 2019 17:28

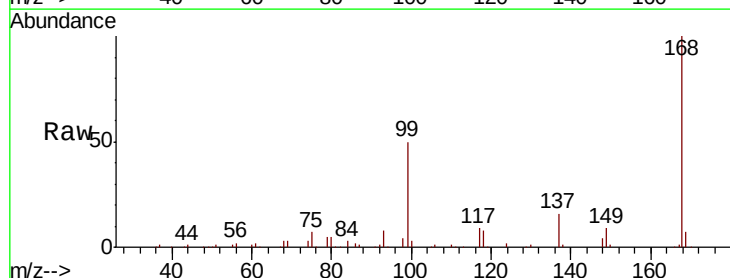
Tgt Ion: 75 Resp: 18028

Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.3#

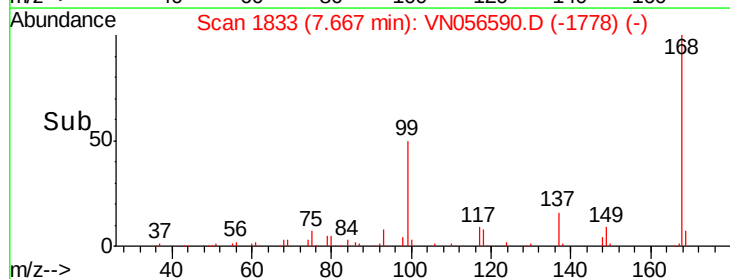
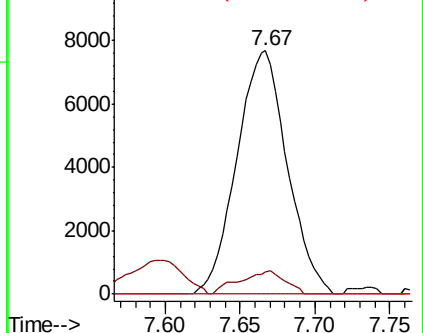
77 0.0 24.6 36.8#

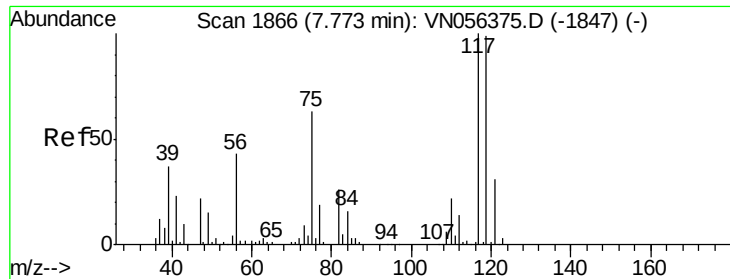


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.626 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056590.D

Acq: 3 Jul 2019 17:28

Instrument :

MSVOA_N

ClientSampled :

VN0704WBL01

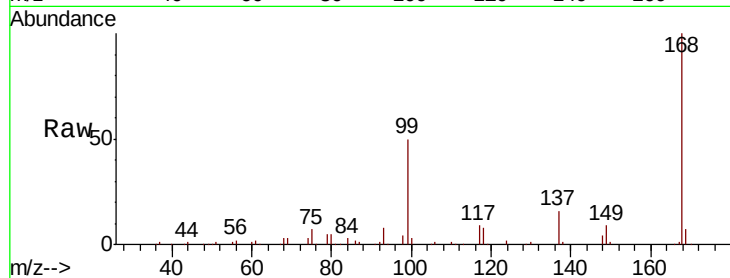
Tot Ion:117 Resp: 23837

Ion Ratio Lower Upper

117 100

119 4.4 79.1 118.7#

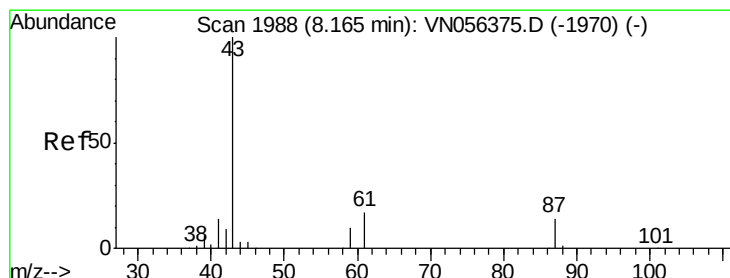
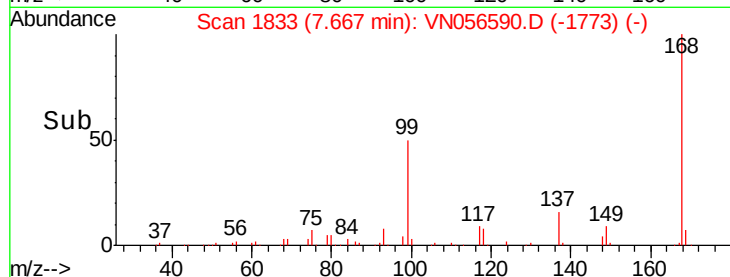
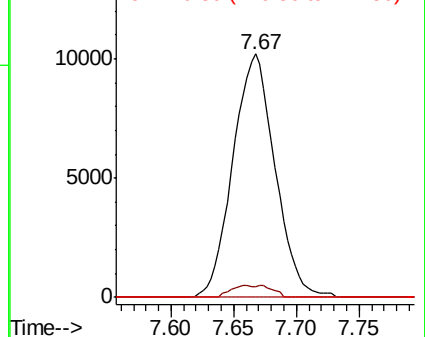
121 0.0 24.8 37.2#



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: 0.230 ug/l

RT: 8.26 min Scan# 2016

Delta R.T. 0.09 min

Lab File: VN056590.D

Acq: 3 Jul 2019 17:28

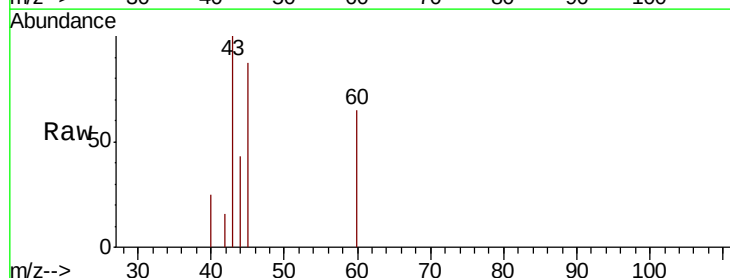
Tgt Ion: 43 Resp: 1435

Ion Ratio Lower Upper

43 100

61 0.0 22.0 33.0#

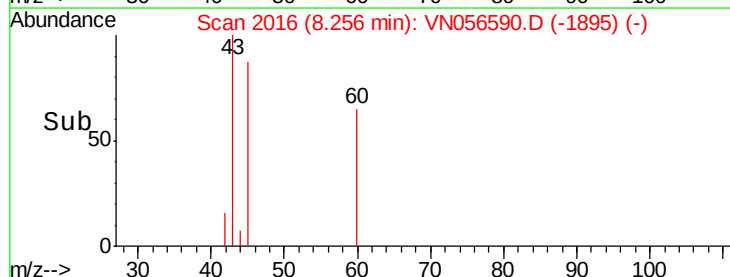
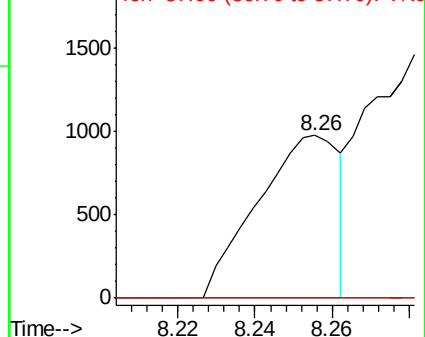
87 0.0 11.0 16.4#

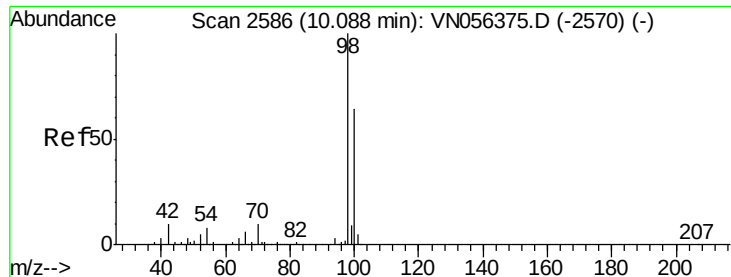


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

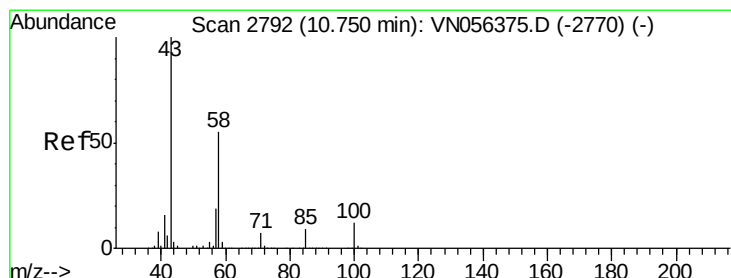
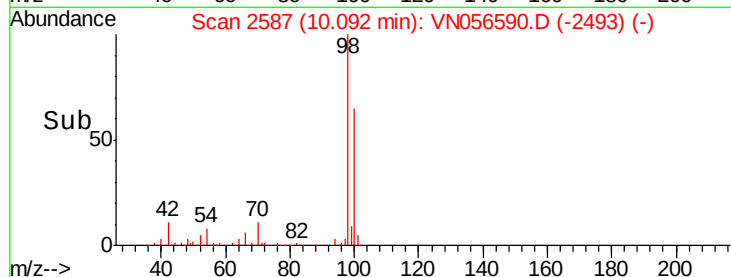
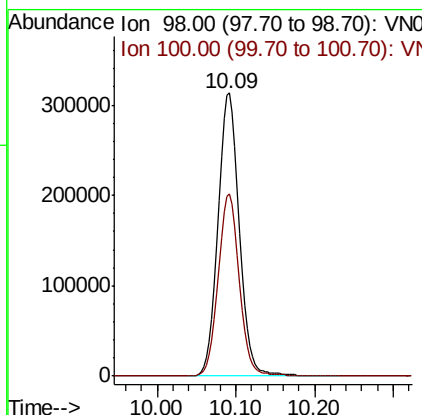
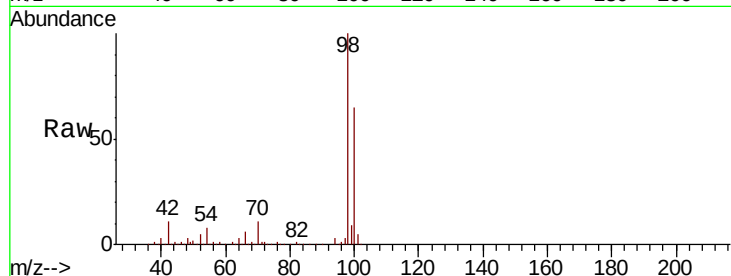




#50
Toluene-d8
Concen: 51.391 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056590.D
Acq: 3 Jul 2019 17:28

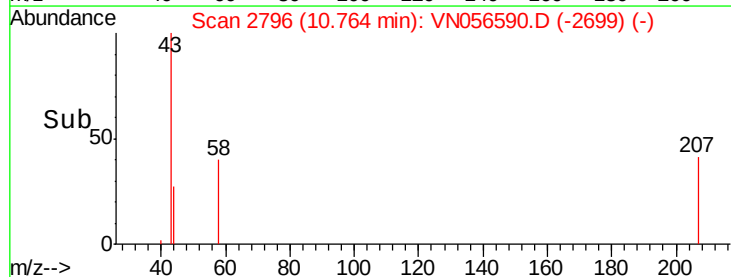
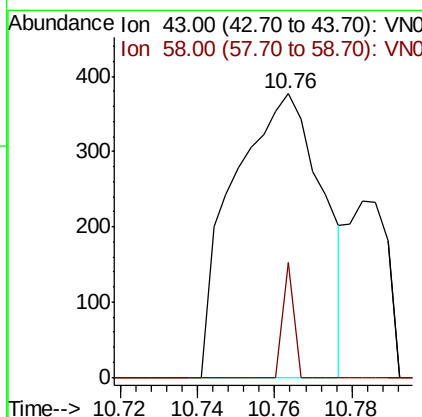
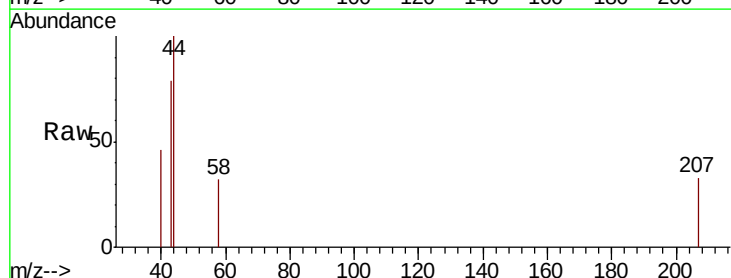
Instrument :
MSVOA_N
ClientSampled :
VN0704WBL01

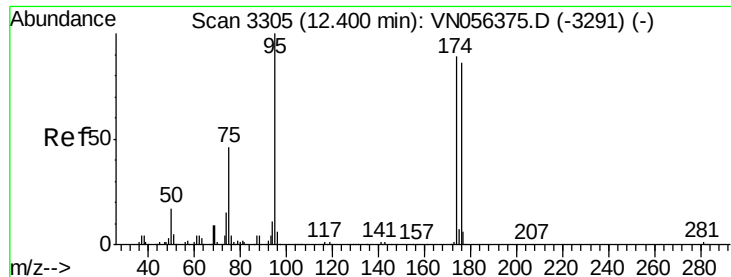
Tot Ion: 98 Resp: 583090
Ion Ratio Lower Upper
98 100
100 64.0 52.2 78.2



#59
2-Hexanone
Concen: 0.205 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056590.D
Acq: 3 Jul 2019 17:28

Tgt Ion: 43 Resp: 606
Ion Ratio Lower Upper
43 100
58 4.8 27.8 83.4#

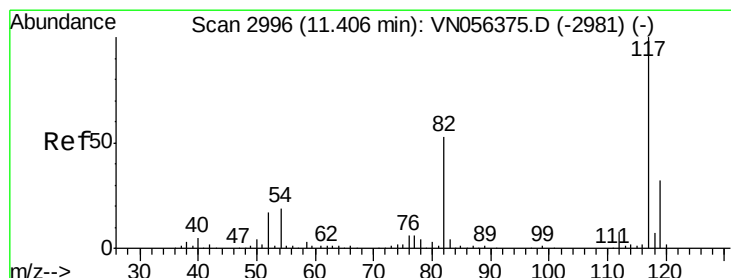
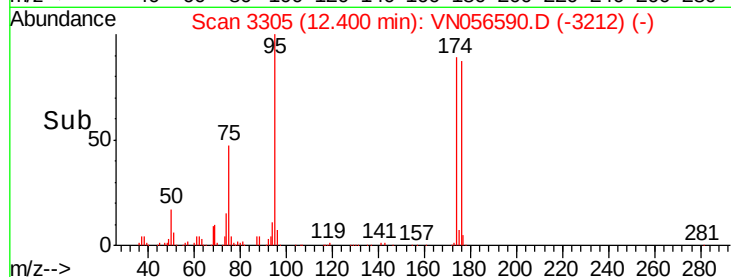
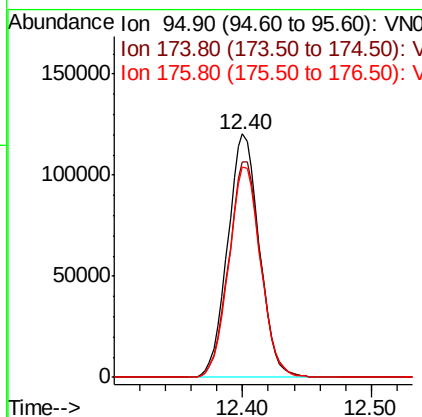
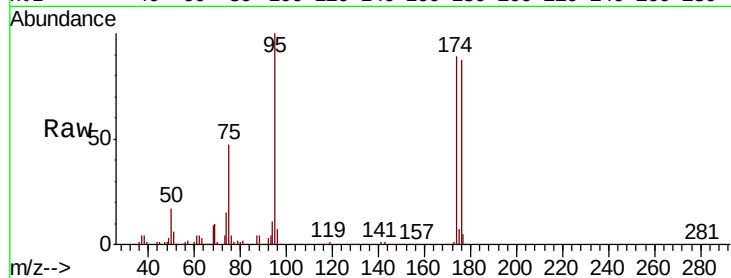




#62
4-Bromofluorobenzene
Concen: 54.289 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056590.D
Acq: 3 Jul 2019 17:28

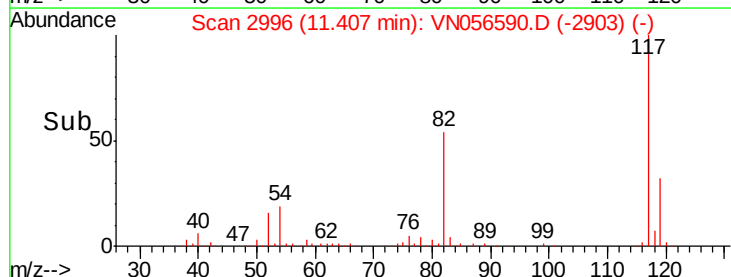
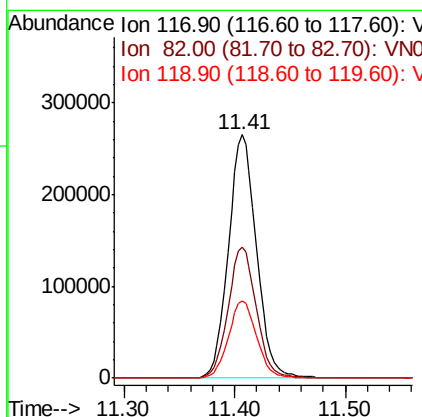
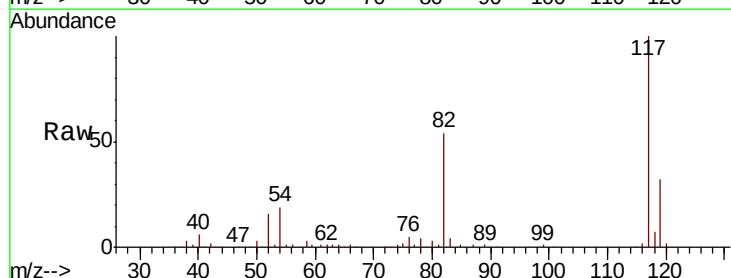
Instrument :
MSVOA_N
ClientSampleId :
VN0704WBL01

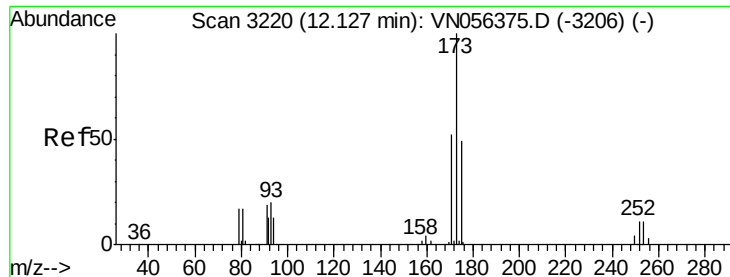
Tot Ion: 95 Resp: 205341
Ion Ratio Lower Upper
95 100
174 89.4 0.0 179.4
176 86.8 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056590.D
Acq: 3 Jul 2019 17:28

Tgt Ion: 117 Resp: 466921
Ion Ratio Lower Upper
117 100
82 54.0 42.0 63.0
119 31.9 25.3 37.9





#71

Bromoform

Concen: 3.749 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056590.D

Acq: 3 Jul 2019 17:28

Instrument :

MSVOA_N

ClientSampled :

VN0704WBL01

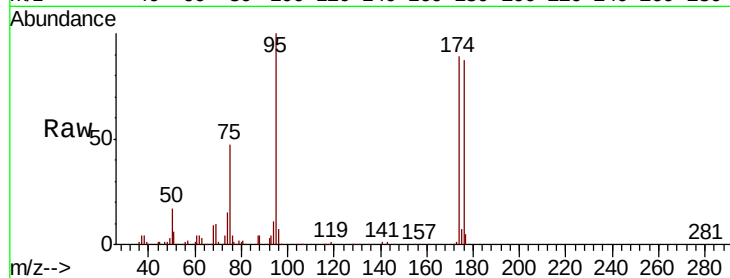
Tot Ion:173 Resp: 1655

Ion Ratio Lower Upper

173 100

175 690.9 24.4 73.4#

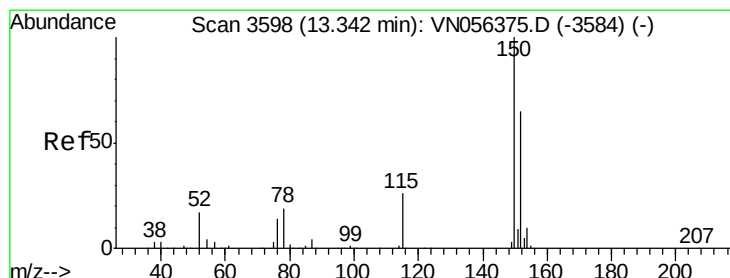
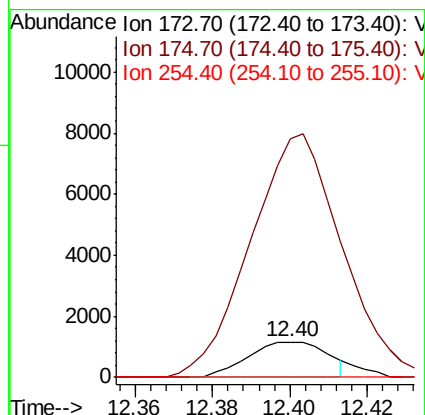
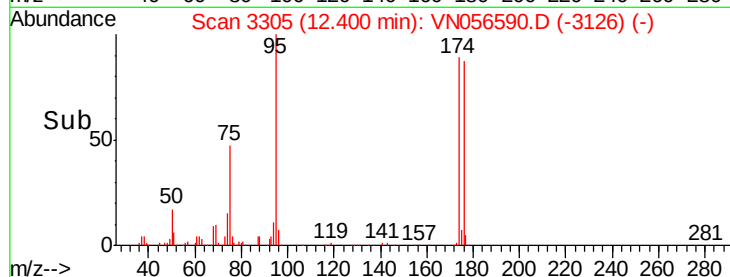
254 0.0 0.0 0.0



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: VN056590.D

Acq: 3 Jul 2019 17:28

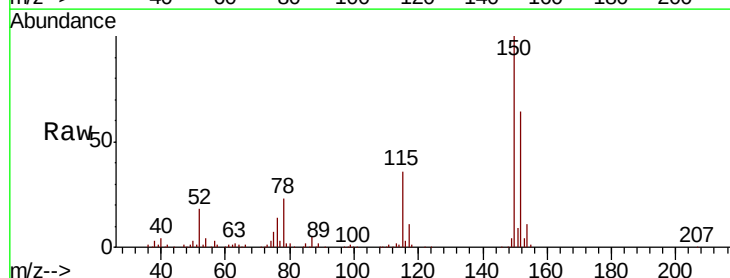
Tgt Ion:152 Resp: 178087

Ion Ratio Lower Upper

152 100

115 55.6 28.1 84.4

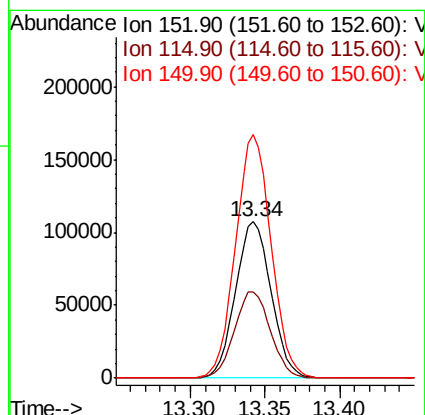
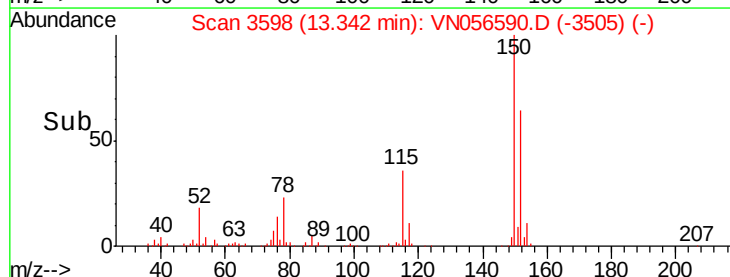
150 155.4 0.0 348.4

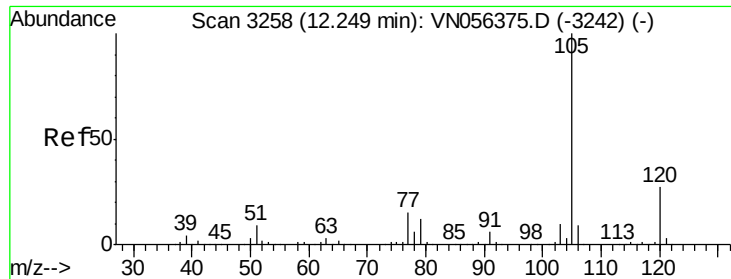


Abundance Ion 151.90 (151.60 to 152.60): V

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# 3258

Delta R.T. 0.00 min

Lab File: VN056590.D

Acq: 3 Jul 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

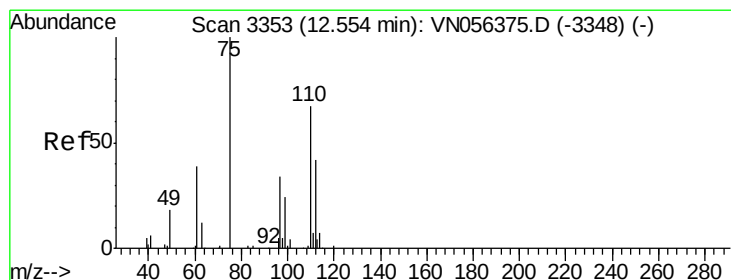
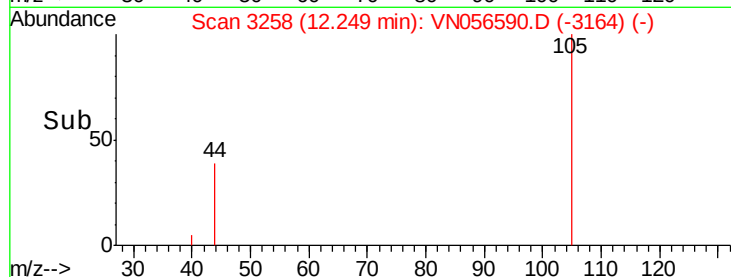
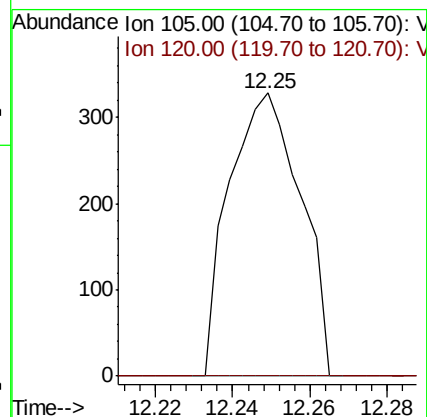
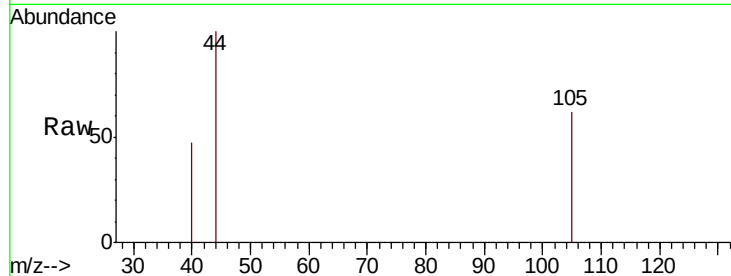
VN0704WBL01

Tot Ion:105 Resp: 422

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



#76

1,2,3-Trichloropropane

Concen: 26.016 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056590.D

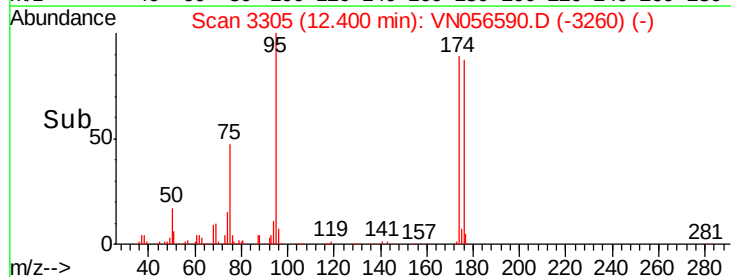
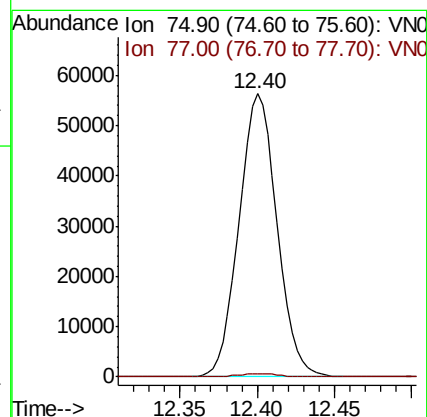
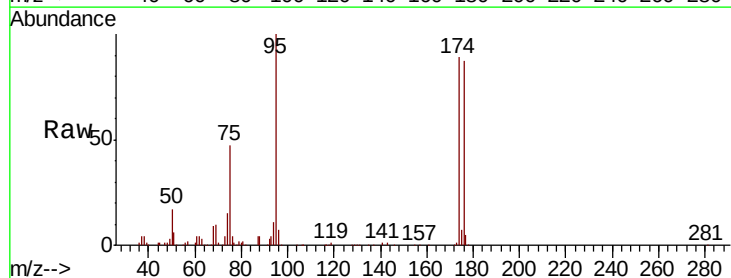
Acq: 3 Jul 2019 17:28

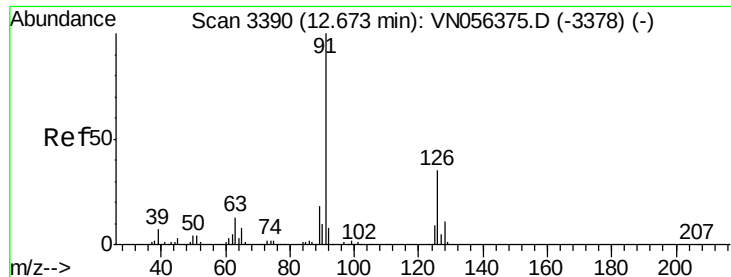
Tgt Ion: 75 Resp: 96069

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: VN056590.D

Acq: 3 Jul 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

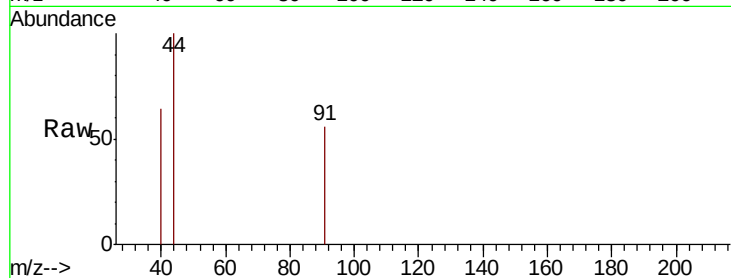
VN0704WBL01

Tot Ion: 91 Resp: 328

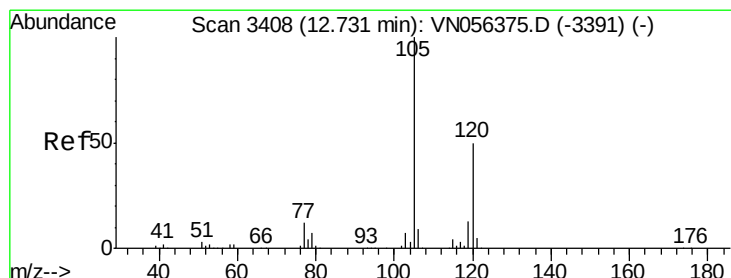
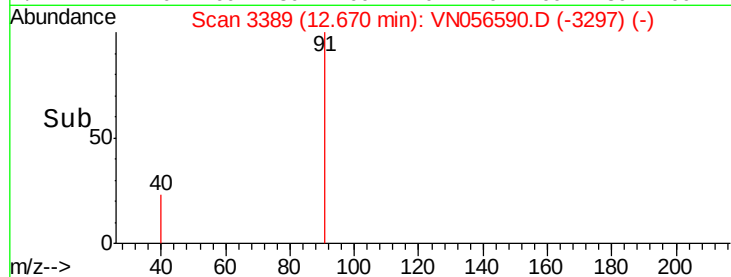
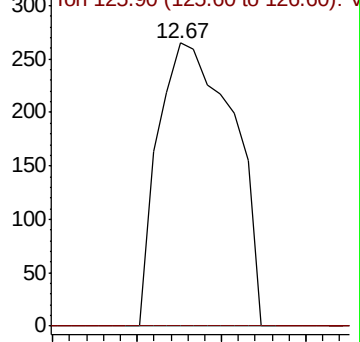
Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.8#



Abundance Ion 91.00 (90.70 to 91.70): VN056375.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.72 min Scan# 3406

Delta R.T. -0.01 min

Lab File: VN056590.D

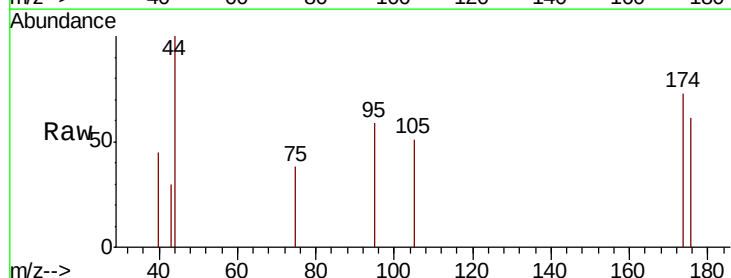
Acq: 3 Jul 2019 17:28

Tgt Ion: 105 Resp: 234

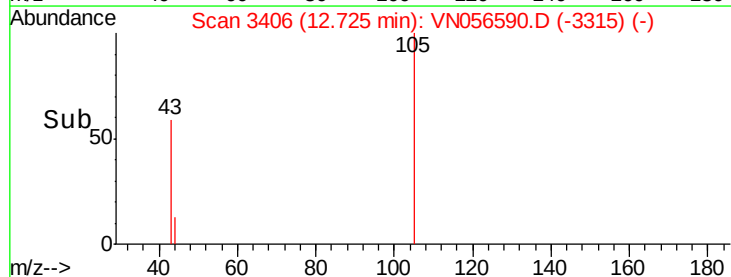
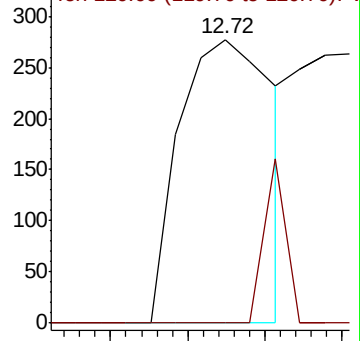
Ion Ratio Lower Upper

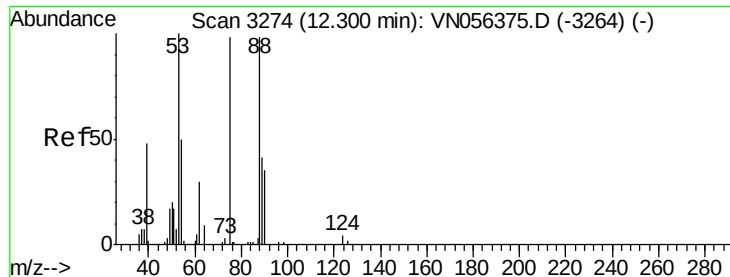
105 100

120 13.2 24.8 74.4#



Abundance Ion 105.00 (104.70 to 105.70): VN056375.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 92.465 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056590.D

Acq: 3 Jul 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

VN0704WBL01

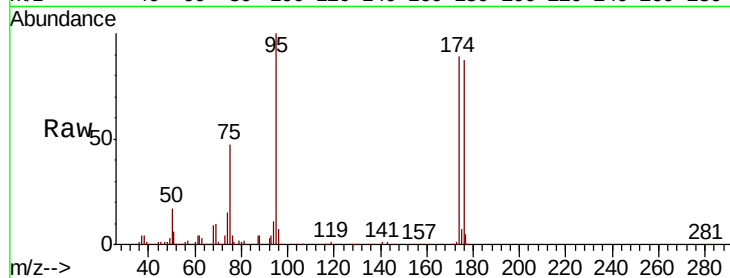
Tot Ion: 75 Resp: 96069

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

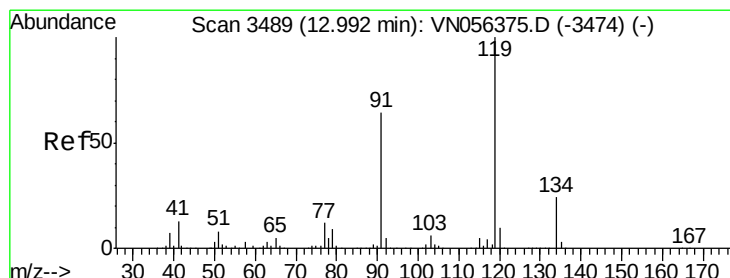
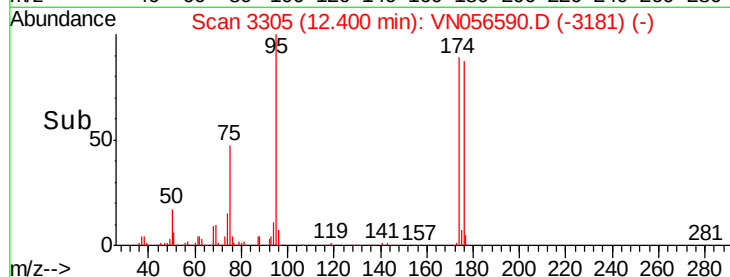
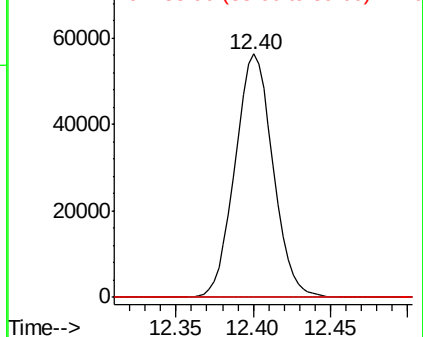
89 0.0 35.0 52.6#



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# 3489

Delta R.T. 0.00 min

Lab File: VN056590.D

Acq: 3 Jul 2019 17:28

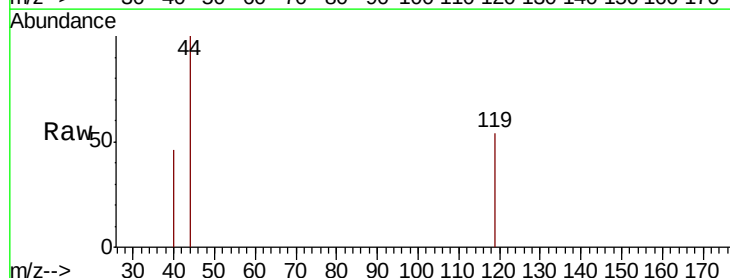
Tgt Ion: 119 Resp: 207

Ion Ratio Lower Upper

119 100

91 0.0 31.6 94.7#

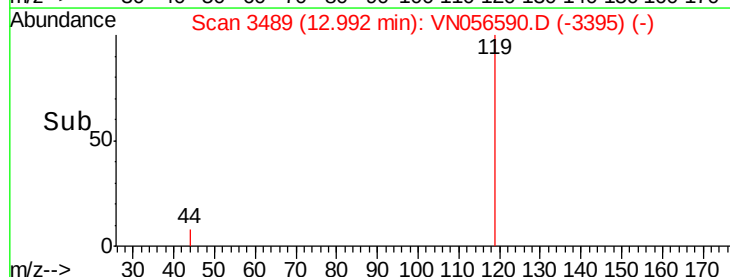
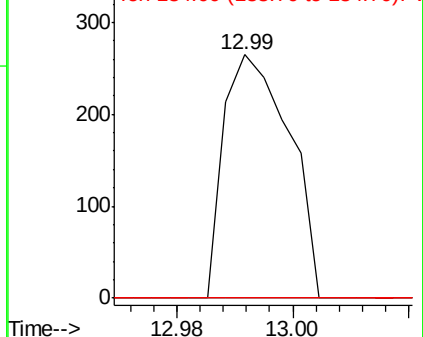
134 0.0 13.2 39.5#

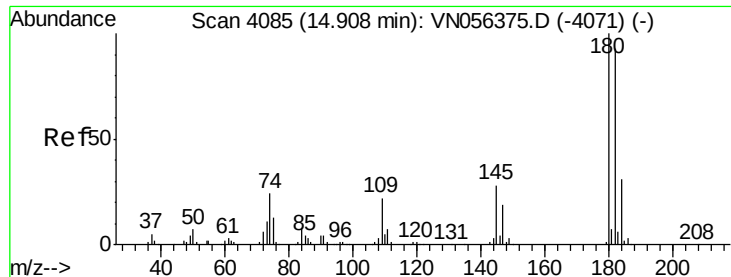


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V

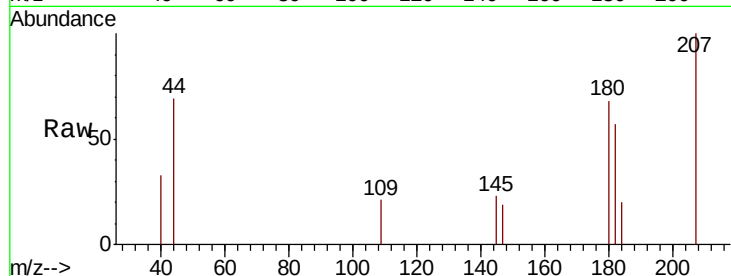




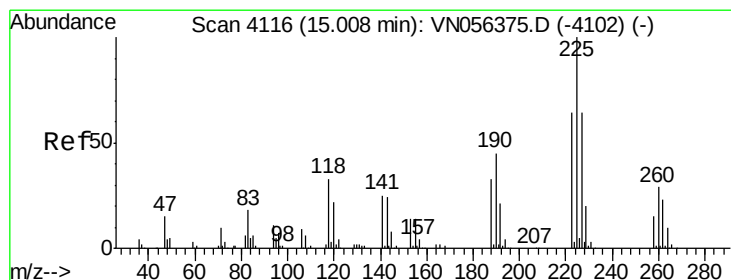
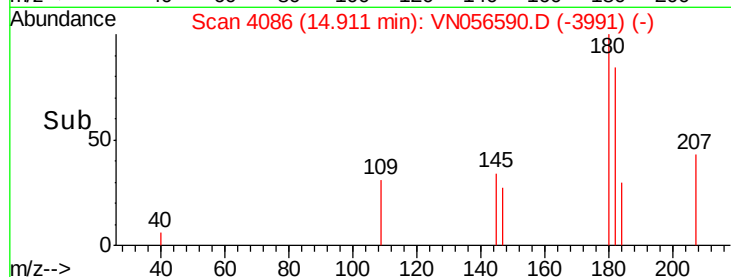
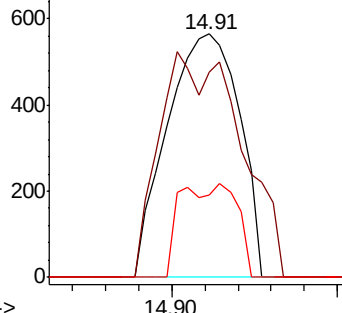
#93
 1,2,4-Trichlorobenzene
 Concen: 5.858 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN056590.D
 Acq: 3 Jul 2019 17:28

Instrument :
 MSVOA_N
 ClientSampled :
 VN0704WBL01

Tot Ion:180 Resp: 855
 Ion Ratio Lower Upper
 180 100
 182 52.3 46.9 140.6
 145 13.3 14.4 43.0#

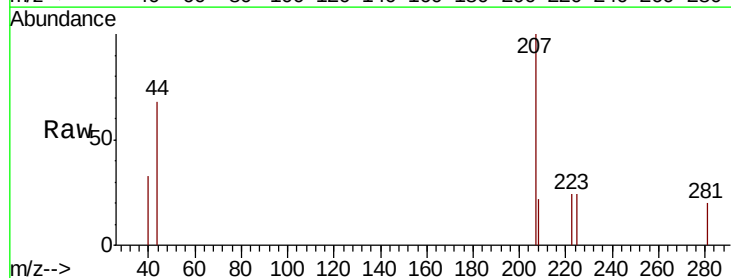


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

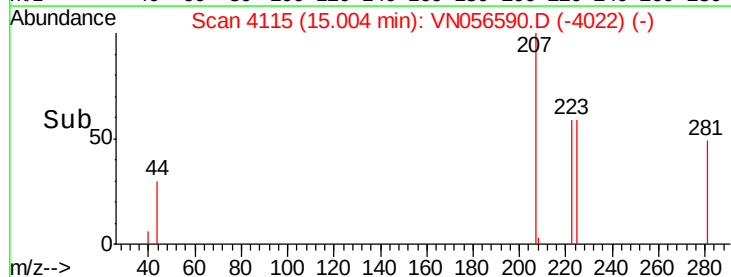
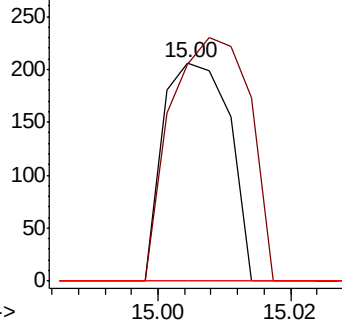


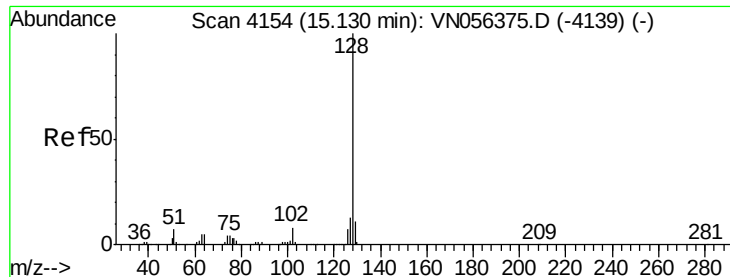
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN056590.D
 Acq: 3 Jul 2019 17:28

Tgt Ion:225 Resp: 143
 Ion Ratio Lower Upper
 225 100
 223 133.6 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: 5.512 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056590.D

Acq: 3 Jul 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

VN0704WBL01

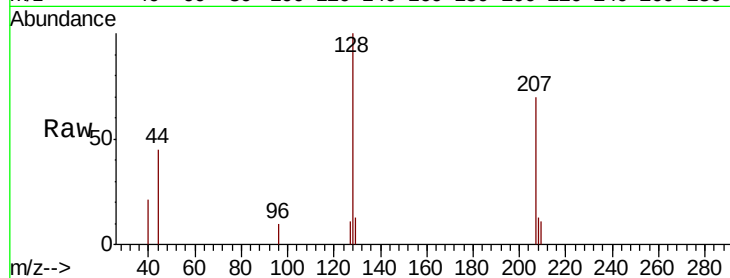
Tot Ion:128 Resp: 2432

Ion Ratio Lower Upper

128 100

127 5.1 10.2 15.2#

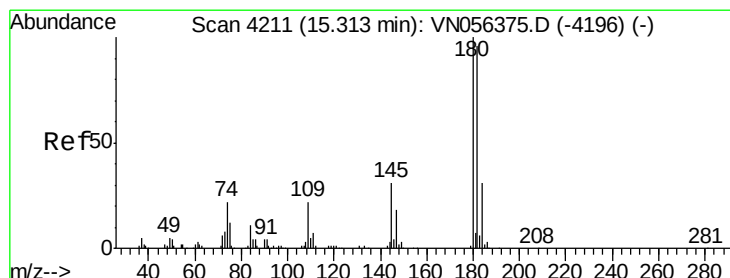
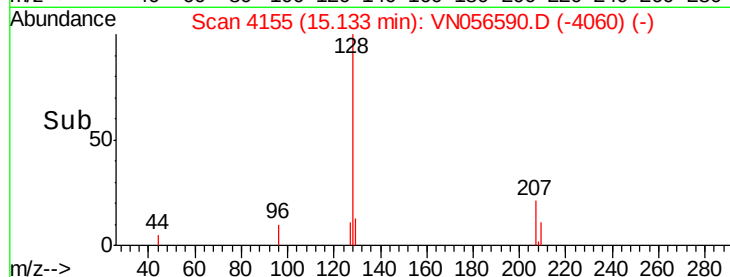
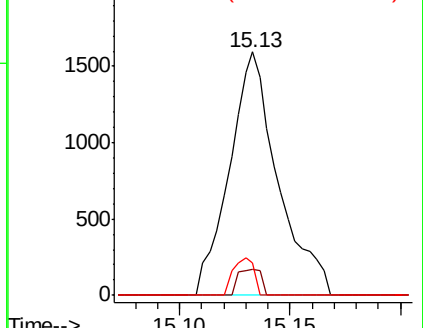
129 6.6 8.6 12.8#



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: 4.787 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN056590.D

Acq: 3 Jul 2019 17:28

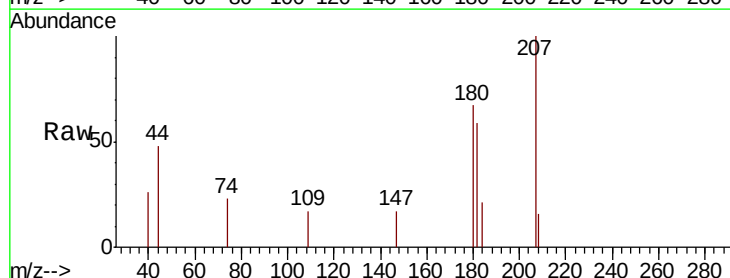
Tgt Ion:180 Resp: 1086

Ion Ratio Lower Upper

180 100

182 105.8 48.3 144.8

145 16.1 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

