

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055617.D
 Acq On : 17 May 2019 17:56
 Operator : JC/SP
 Sample : K2902-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 03:10:58 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	419784	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	591096	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	491528	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	188688	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	198844	43.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.42%	
35) Dibromofluoromethane	7.59	113	184727	49.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.40%	
50) Toluene-d8	10.09	98	684342	48.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.40%	
62) 4-Bromofluorobenzene	12.40	95	213704	43.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.18%	

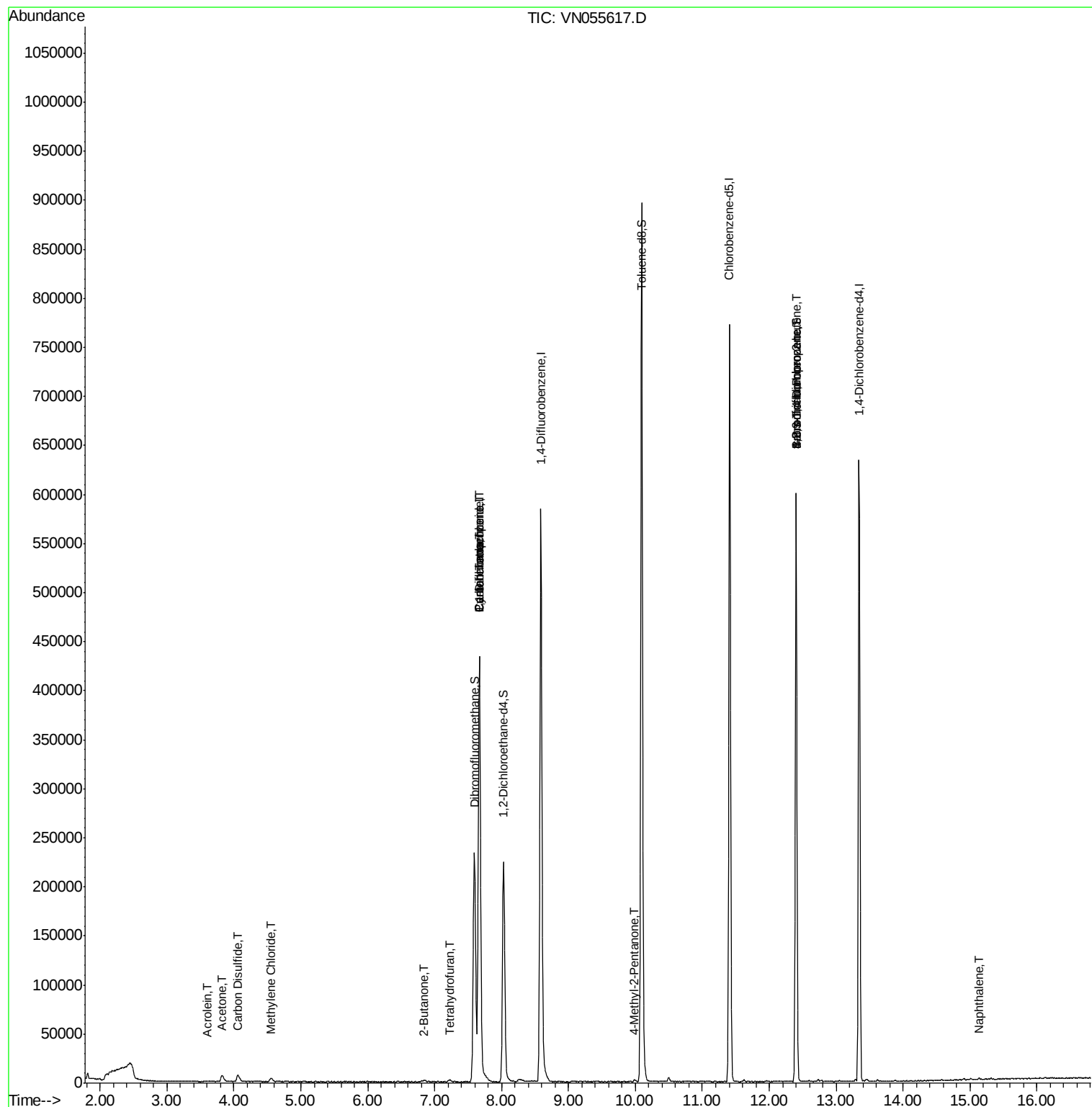
Target Compounds			Qvalue			
13) Acrolein	3.60	56	66	1.512	ug/l #	14
16) Acetone	3.83	43	13042	6.945	ug/l	96
17) Carbon Disulfide	4.06	76	2172	0.204	ug/l #	75
20) Methylene Chloride	4.55	84	1668	0.389	ug/l #	85
25) 2-Butanone	6.84	43	568	0.216	ug/l #	47
29) Tetrahydrofuran	7.23	42	2096	1.205	ug/l #	83
31) Cyclohexane	7.67	56	6669	0.977	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	25410	4.822	ug/l #	48
38) Carbon Tetrachloride	7.67	117	35630	6.327	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	1542	0.318	ug/l	93
71) Bromoform	12.40	173	1419	0.419	ug/l #	1
73) Isopropylbenzene	12.26	105	475	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	12.40	83	133	Below Cal	#	5
76) 1,2,3-Trichloropropane	12.40	75	99099	25.739	ug/l #	100
79) 2-Chlorotoluene	12.67	91	534	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	480	Below Cal	#	57
81) trans-1,4-Dichloro-2-buten	12.40	75	99099	66.163	ug/l #	17
83) tert-Butylbenzene	12.99	119	305	Below Cal	#	80
84) 1,2,4-Trimethylbenzene	13.04	105	772	Below Cal		74
85) sec-Butylbenzene	13.17	105	853	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	912	Below Cal		79
94) Hexachlorobutadiene	15.01	225	280	Below Cal		72
95) Naphthalene	15.14	128	2116	1.972	ug/l #	78

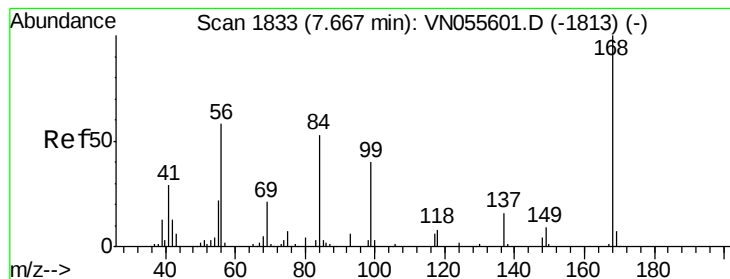
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055617.D

Acq: 17 May 2019 17:56

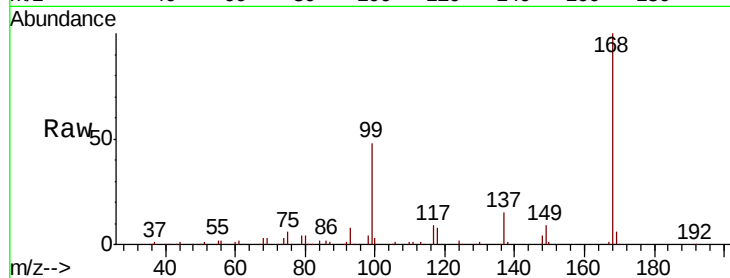
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 419784

Ion Ratio Lower Upper

168 100

99 47.9 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

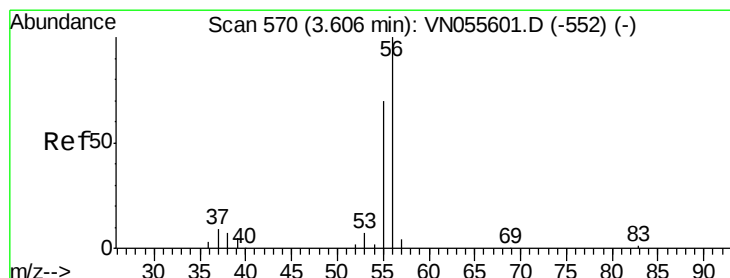
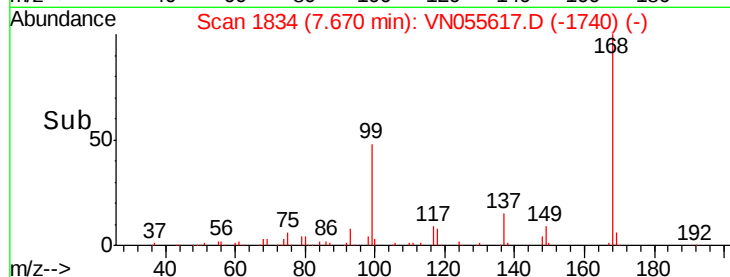
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#13

Acrolein

Concen: 1.512 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN055617.D

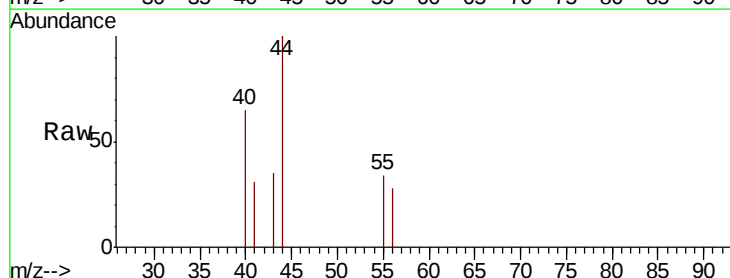
Acq: 17 May 2019 17:56

Tgt Ion: 56 Resp: 66

Ion Ratio Lower Upper

56 100

55 0.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

250

200

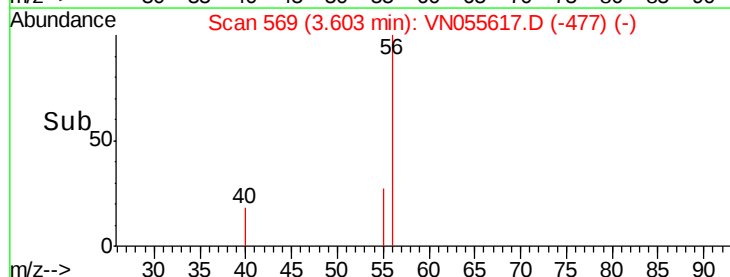
150

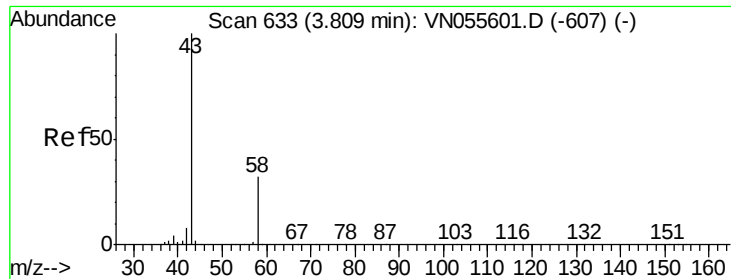
100

50

0

Time--> 3.59 3.60 3.61





#16

Acetone

Concen: 6.945 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.02 min

Lab File: VN055617.D

Acq: 17 May 2019 17:56

Instrument :

MSVOA_N

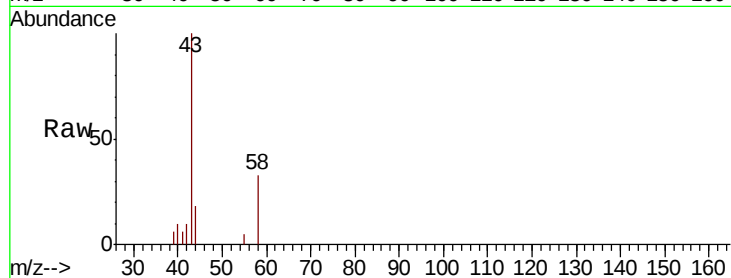
ClientSampleId :

Tot Ion: 43 Resp: 13042

Ion Ratio Lower Upper

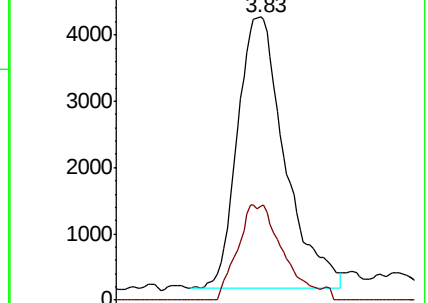
43 100

58 34.8 26.0 39.0

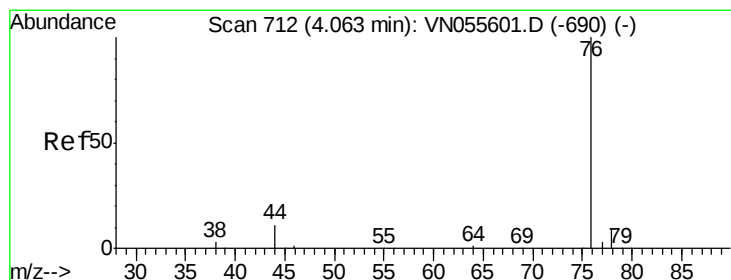
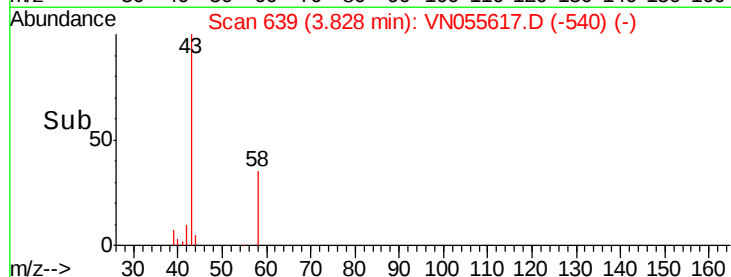


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time--> 3.70 3.80 3.90



#17

Carbon Disulfide

Concen: 0.204 ug/l

RT: 4.06 min Scan# 712

Delta R.T. -0.00 min

Lab File: VN055617.D

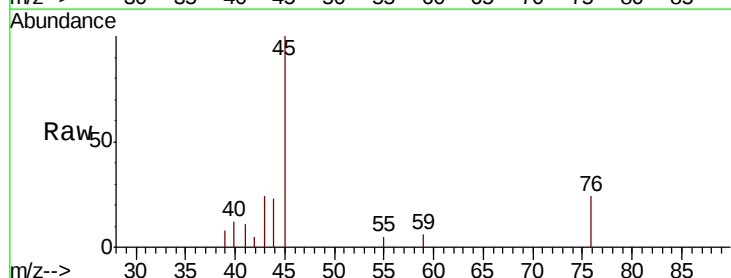
Acq: 17 May 2019 17:56

Tgt Ion: 76 Resp: 2172

Ion Ratio Lower Upper

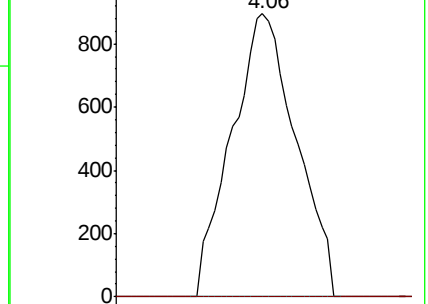
76 100

78 0.0 7.3 10.9#

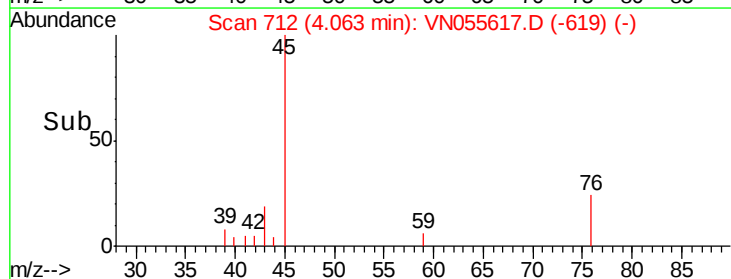


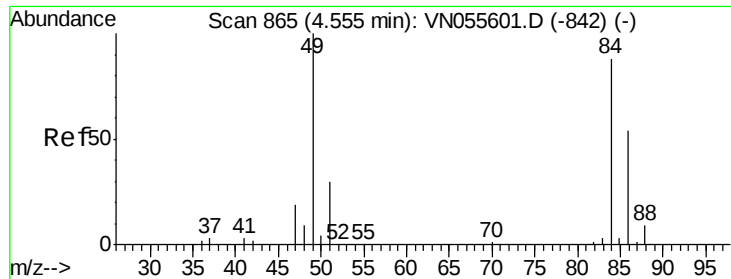
Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time--> 4.00 4.05 4.10

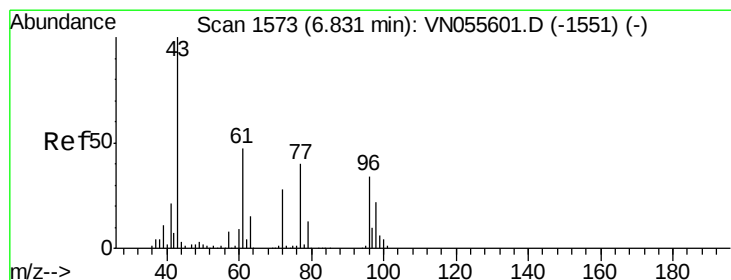
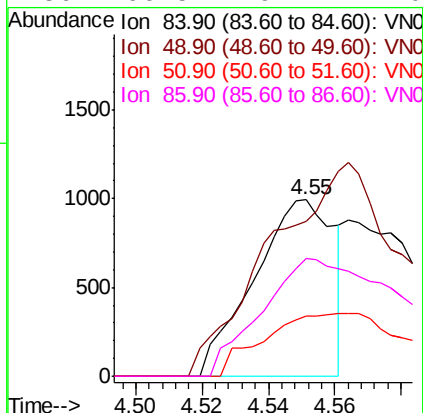
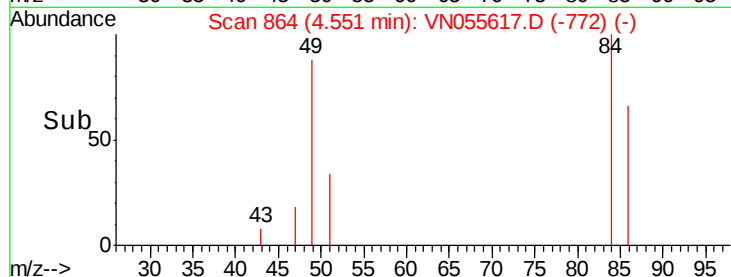
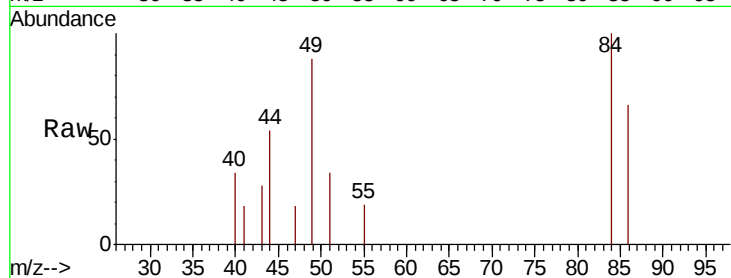




#20
Methvlene Chloride
Concen: 0.389 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN055617.D
Acq: 17 May 2019 17:56

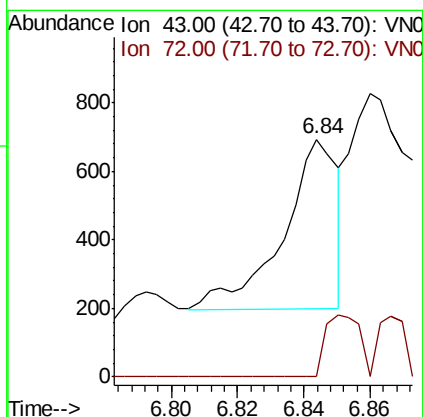
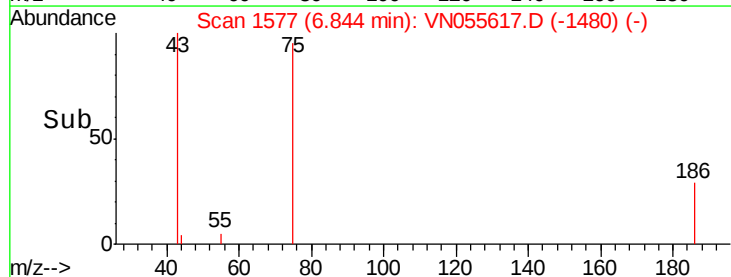
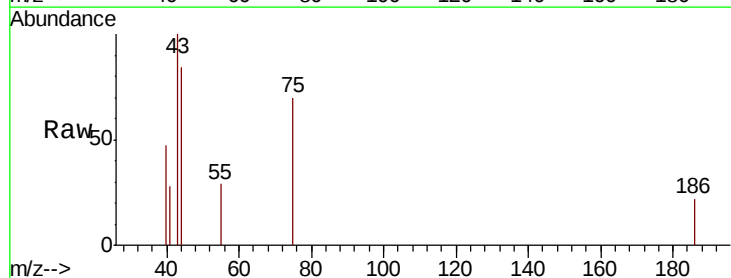
Instrument :
MSVOA_N
ClientSampled :

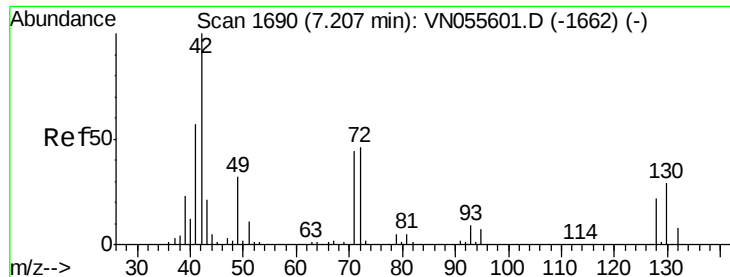
Tot Ion: 84 Resp: 1668
Ion Ratio Lower Upper
84 100
49 88.1 91.0 136.4#
51 34.0 27.5 41.3
86 66.5 49.4 74.0



#25
2-Butanone
Concen: 0.216 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN055617.D
Acq: 17 May 2019 17:56

Tgt Ion: 43 Resp: 568
Ion Ratio Lower Upper
43 100
72 0.0 22.3 33.5#





#29

Tetrahydrofuran

Concen: 1.205 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

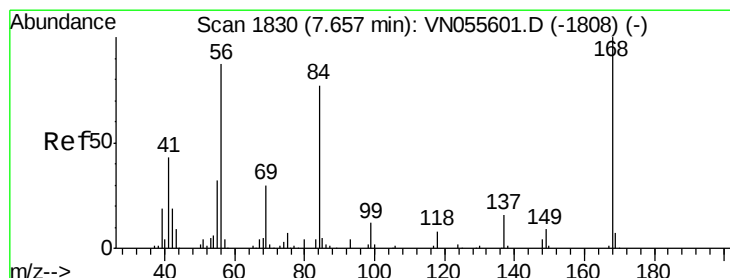
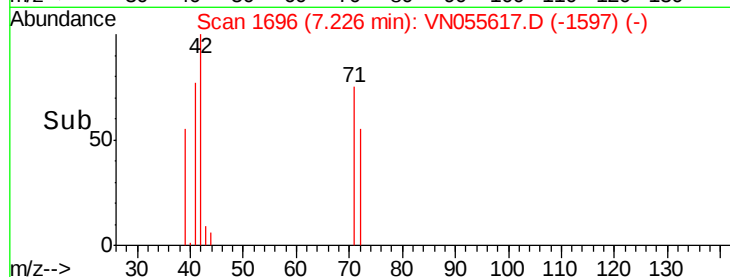
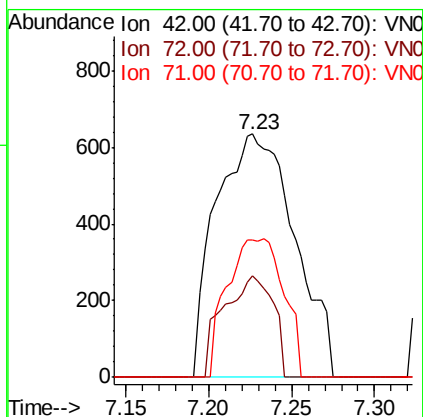
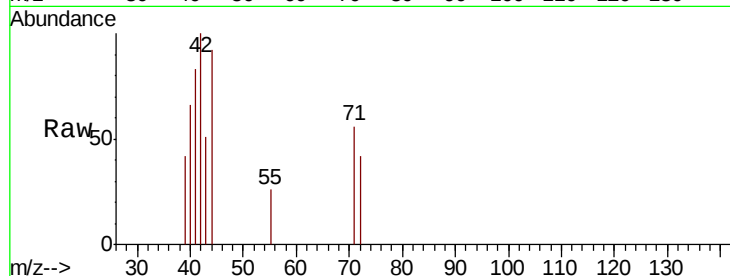
Lab File: VN055617.D

Acq: 17 May 2019 17:56

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 42 Resp: 2096

Ion	Ratio	Lower	Upper
42	100		
72	26.3	36.5	54.7#
71	40.6	34.9	52.3



#31

Cyclohexane

Concen: 0.977 ug/l

RT: 7.67 min Scan# 1833

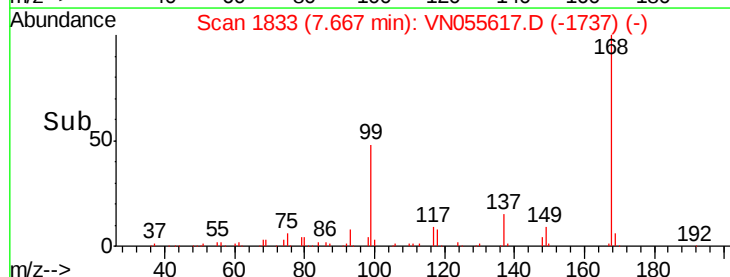
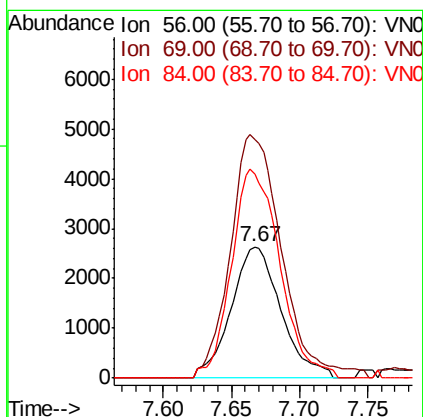
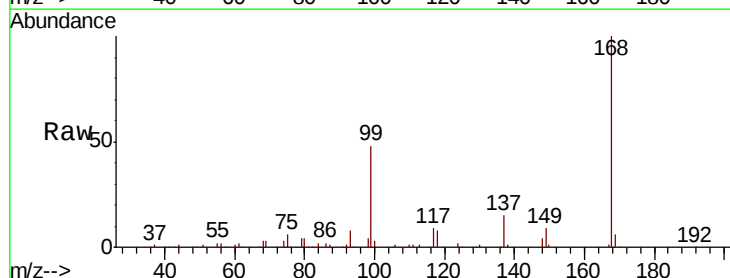
Delta R.T. 0.01 min

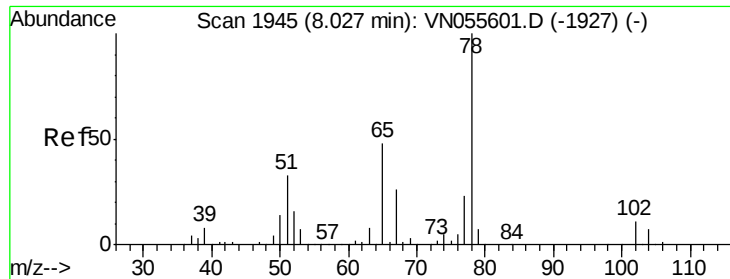
Lab File: VN055617.D

Acq: 17 May 2019 17:56

Tgt Ion: 56 Resp: 6669

Ion	Ratio	Lower	Upper
56	100		
69	182.2	27.2	40.8#
84	155.2	71.3	106.9#

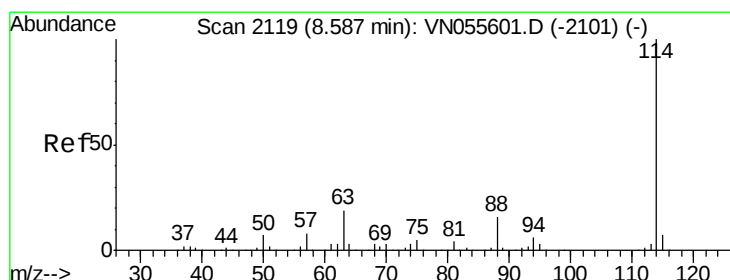
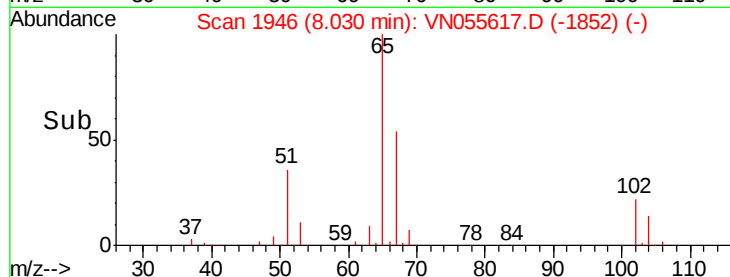
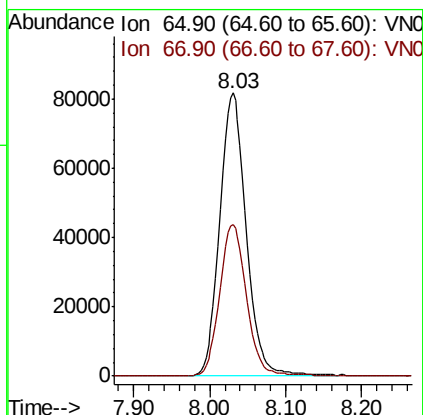
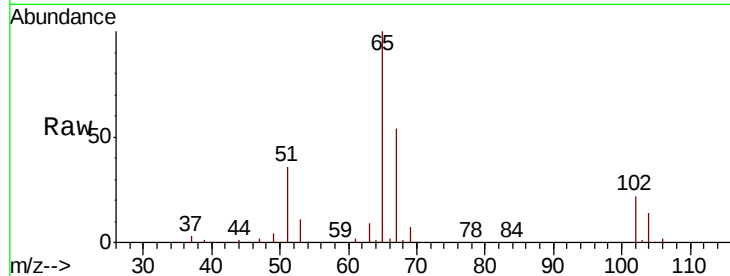




#33
 1,2-Dichloroethane-d4
 Concen: 43.211 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055617.D
 Acq: 17 May 2019 17:56

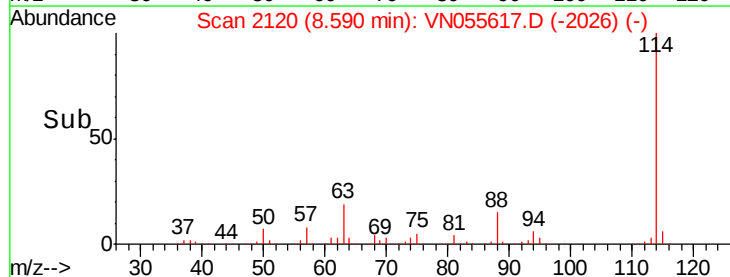
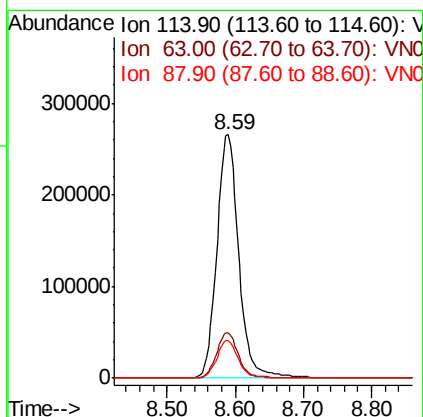
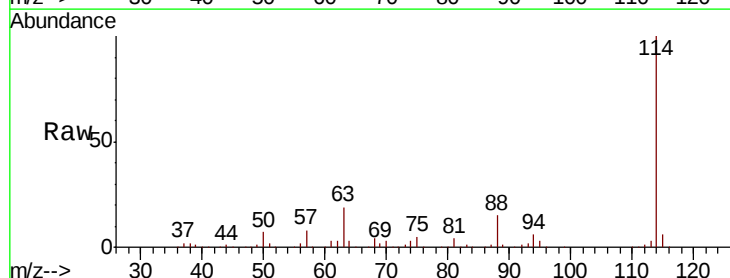
Instrument :
 MSVOA_N
 ClientSampled :

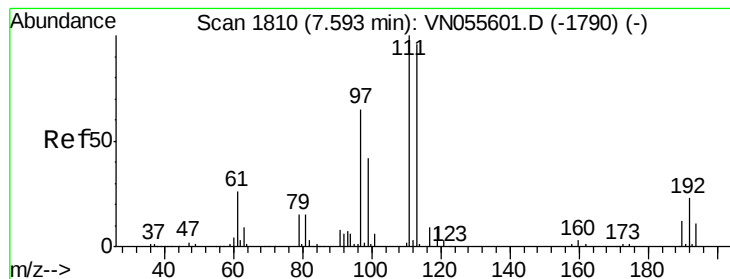
Tot Ion: 65 Resp: 198844
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN055617.D
 Acq: 17 May 2019 17:56

Tgt Ion: 114 Resp: 591096
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 38.2
 88 15.4 0.0 31.0





#35

Dibromofluoromethane

Concen: 49.196 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN055617.D

Acq: 17 May 2019 17:56

Instrument :

MSVOA_N

ClientSampled :

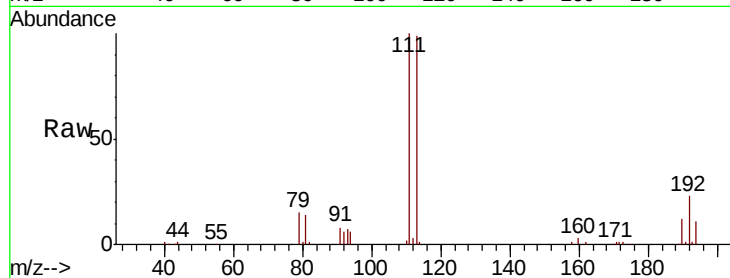
Tot Ion:113 Resp: 184727

Ion Ratio Lower Upper

113 100

111 101.2 82.5 123.7

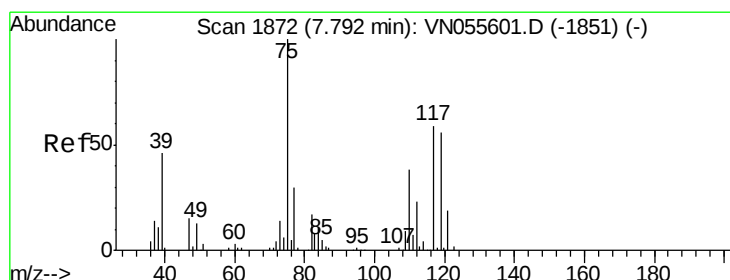
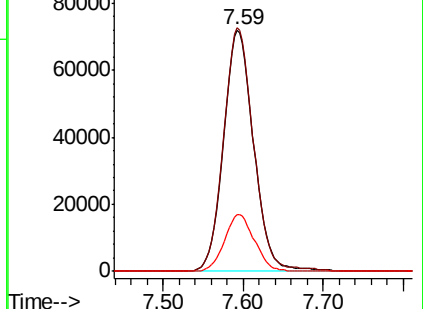
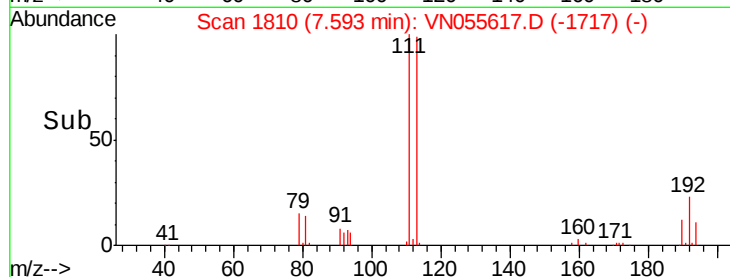
192 23.3 18.7 28.1



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: 4.822 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN055617.D

Acq: 17 May 2019 17:56

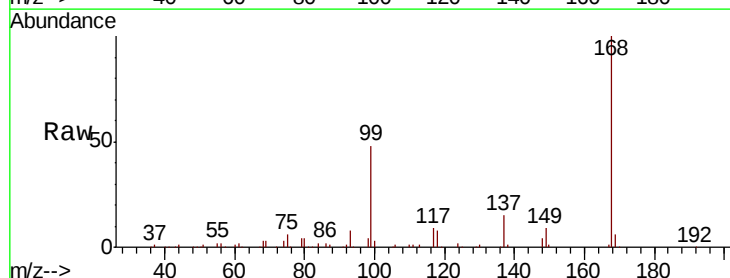
Tgt Ion: 75 Resp: 25410

Ion Ratio Lower Upper

75 100

110 8.6 18.6 55.6#

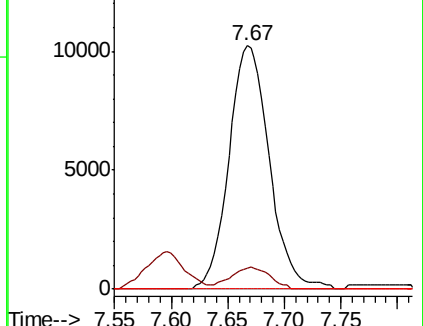
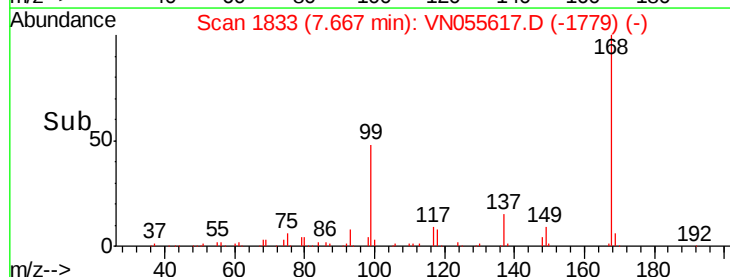
77 0.0 24.9 37.3#

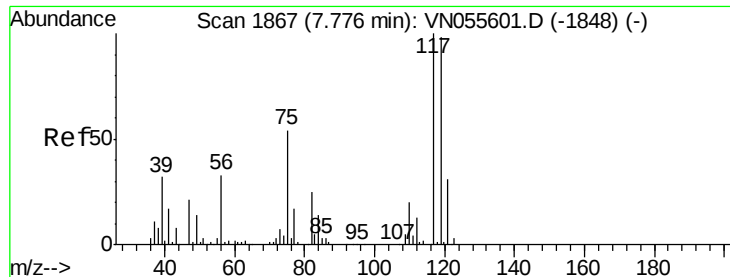


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.327 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055617.D

Acq: 17 May 2019 17:56

Instrument :

MSVOA_N

ClientSampleId :

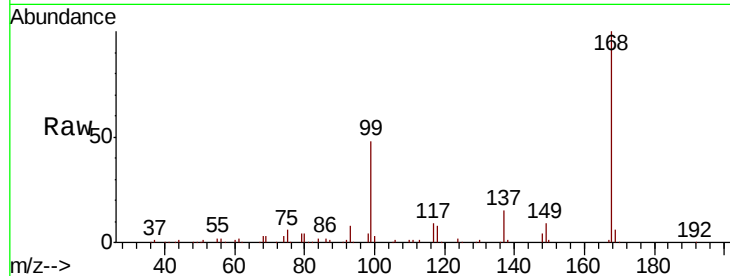
Tot Ion:117 Resp: 35630

Ion Ratio Lower Upper

117 100

119 5.2 77.8 116.8#

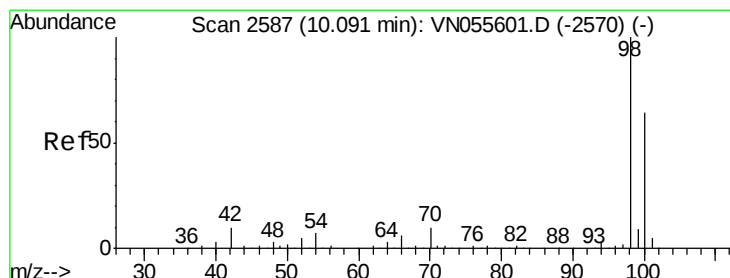
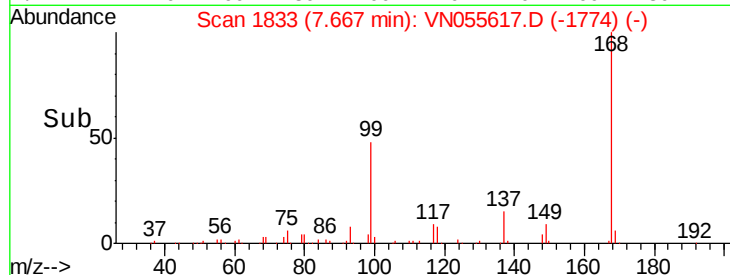
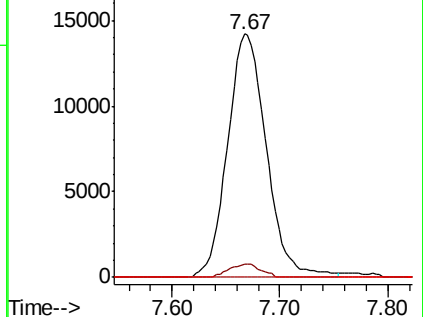
121 0.0 24.6 37.0#



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



#50

Toluene-d8

Concen: 48.201 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055617.D

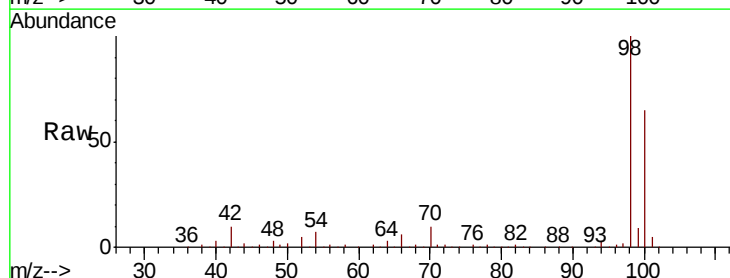
Acq: 17 May 2019 17:56

Tgt Ion: 98 Resp: 684342

Ion Ratio Lower Upper

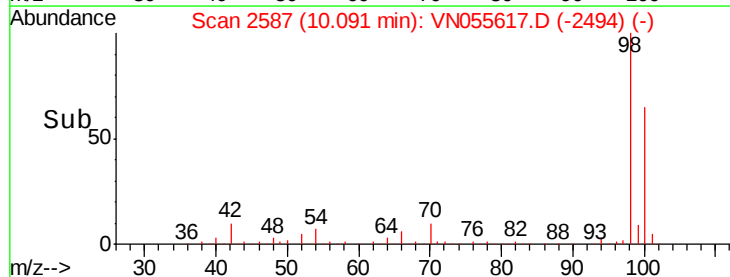
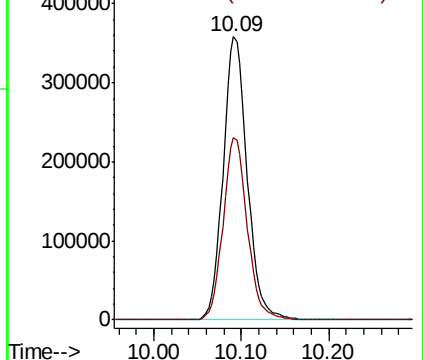
98 100

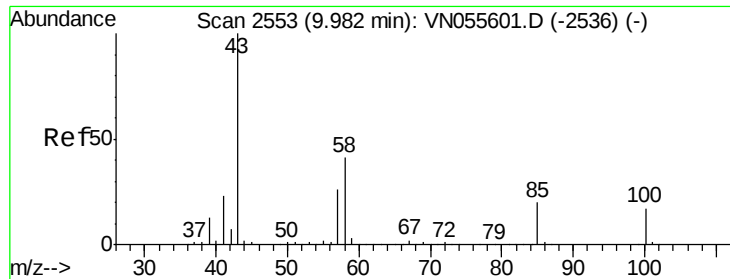
100 64.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.318 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.01 min

Lab File: VN055617.D

Acq: 17 May 2019 17:56

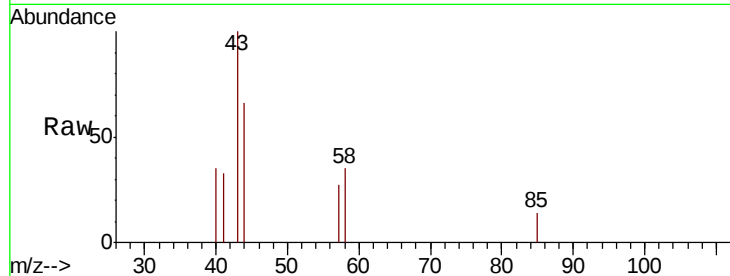
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1542

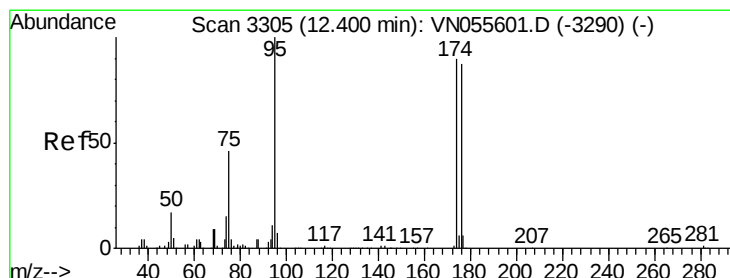
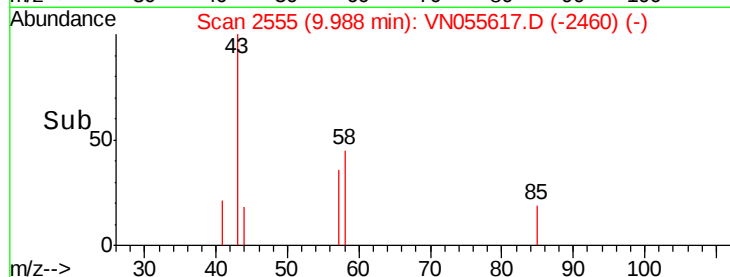
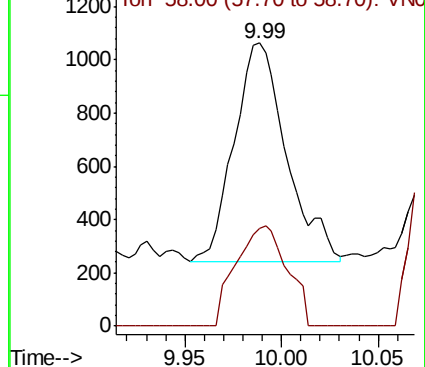
Ion Ratio Lower Upper

43 100

58 45.2 32.7 49.1



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



#62

4-Bromofluorobenzene

Concen: 43.589 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055617.D

Acq: 17 May 2019 17:56

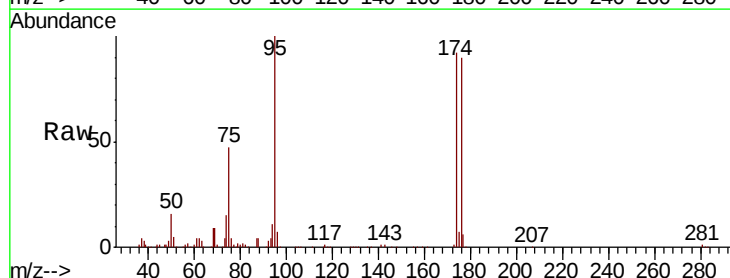
Tgt Ion: 95 Resp: 213704

Ion Ratio Lower Upper

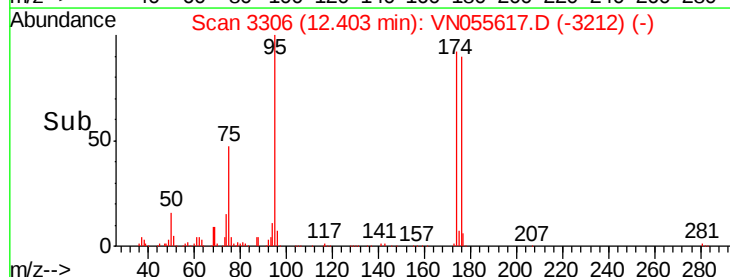
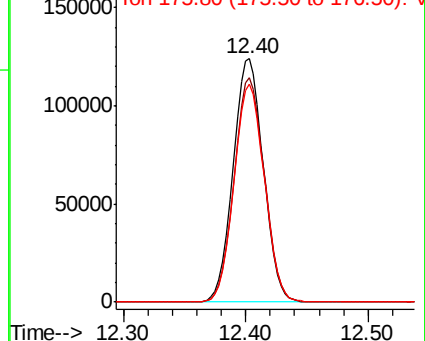
95 100

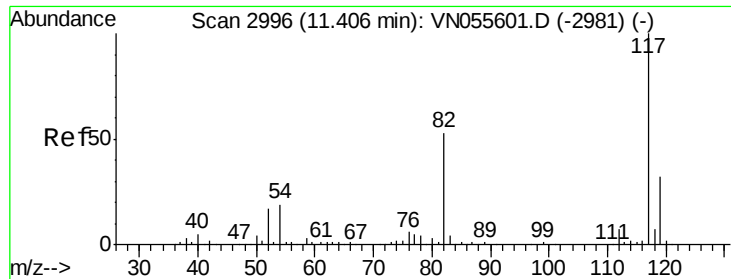
174 91.7 0.0 180.6

176 89.6 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

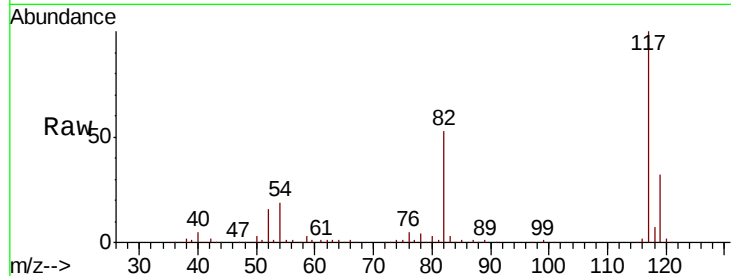




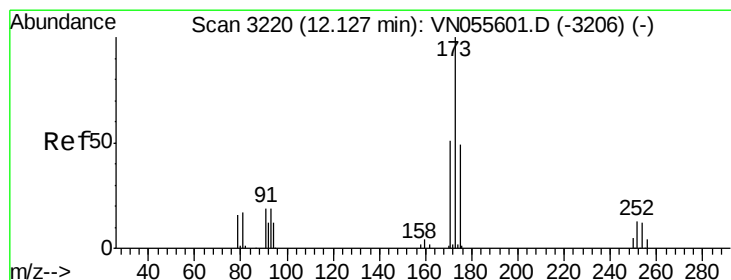
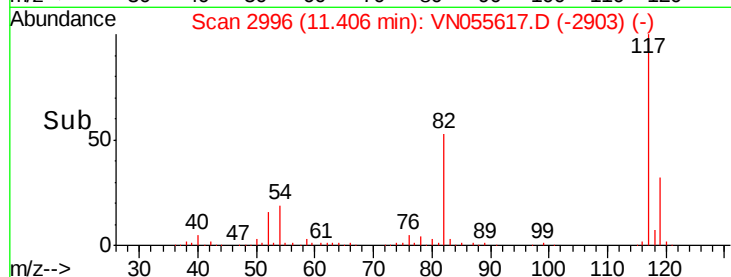
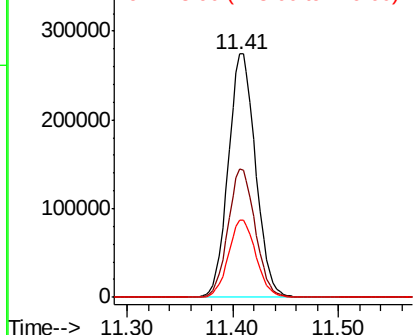
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055617.D
Acq: 17 May 2019 17:56

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 491528
Ion Ratio Lower Upper
117 100
82 52.7 42.3 63.5
119 31.8 25.4 38.2

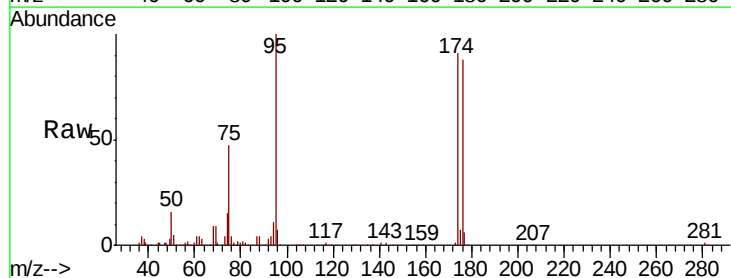


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

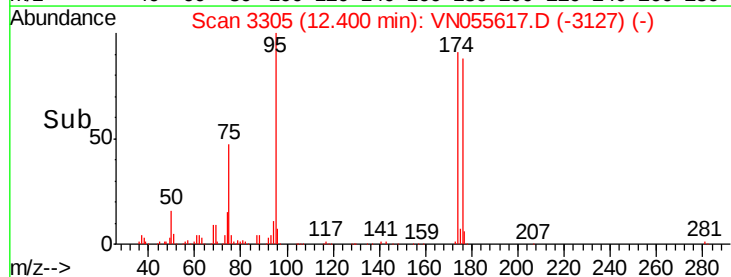
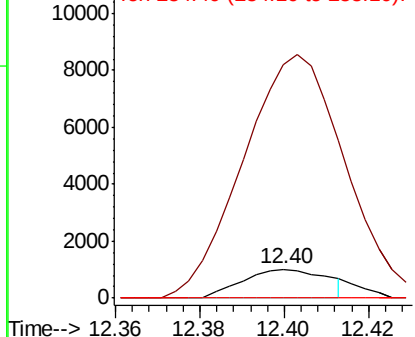


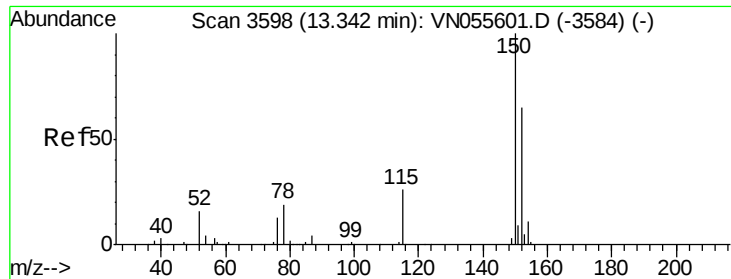
#71
Bromoform
Concen: 0.419 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055617.D
Acq: 17 May 2019 17:56

Tgt Ion:173 Resp: 1419
Ion Ratio Lower Upper
173 100
175 867.5 24.3 72.9#
254 0.0 0.1 0.1#



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



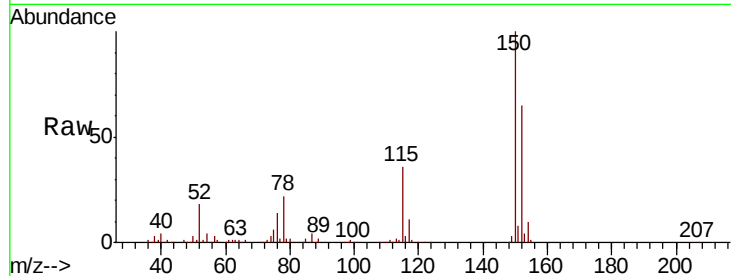


#72

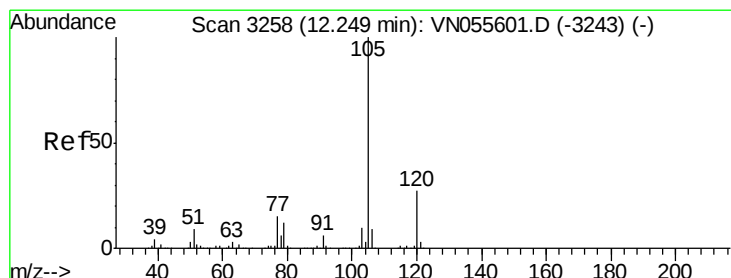
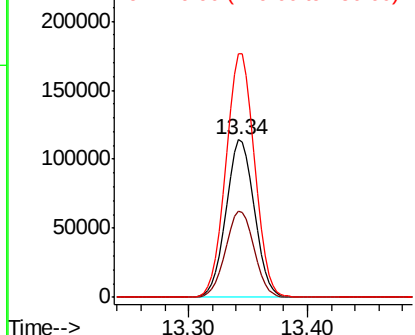
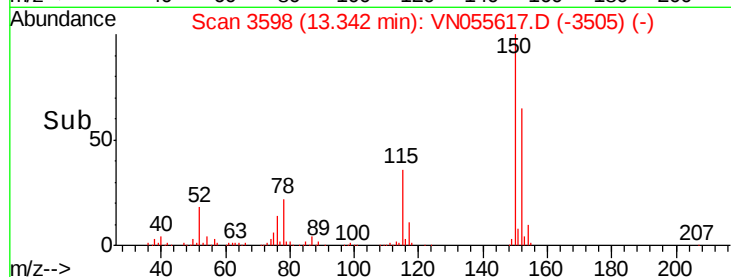
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN055617.D
Acq: 17 May 2019 17:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:152 Resp: 188688
Ion Ratio Lower Upper
152 100
115 55.3 28.1 84.2
150 156.1 0.0 348.0



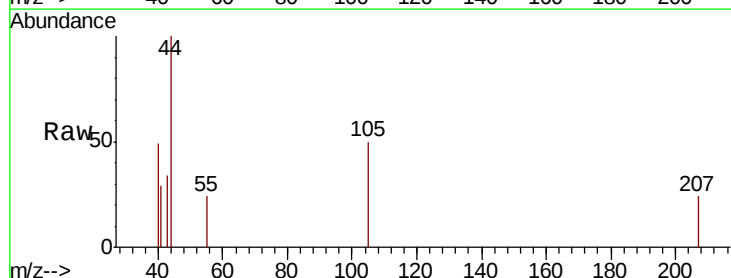
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



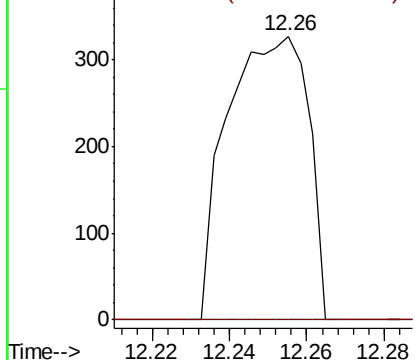
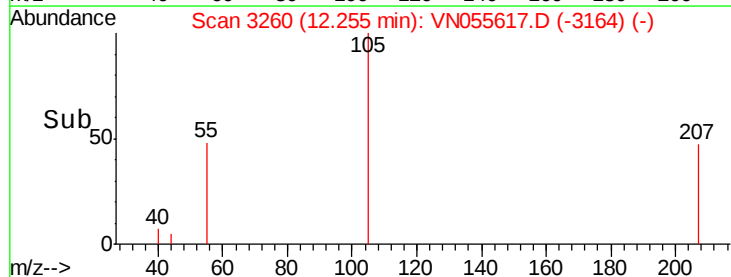
#73

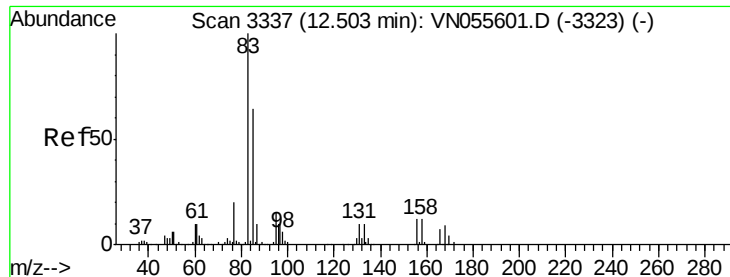
Isopropylbenzene
Concen: Below Cal
RT: 12.26 min Scan# 3260
Delta R.T. 0.01 min
Lab File: VN055617.D
Acq: 17 May 2019 17:56

Tgt Ion:105 Resp: 475
Ion Ratio Lower Upper
105 100
120 0.0 13.4 40.2#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.11 min

Lab File: VN055617.D

Acq: 17 May 2019 17:56

Instrument :

MSVOA_N

ClientSampled :

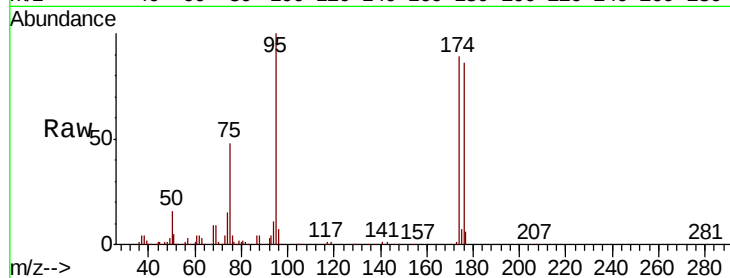
Tot Ion: 83 Resp: 133

Ion Ratio Lower Upper

83 100

131 75.9 5.3 16.1#

85 0.0 32.0 96.2#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO

250

200

150

100

50

0

12.38

12.40

12.42

12.44

12.46

12.48

12.50

12.52

12.54

12.56

12.58

12.60

12.62

12.64

12.66

12.68

12.70

12.72

12.74

12.76

12.78

12.80

12.82

12.84

12.86

12.88

12.90

12.92

12.94

12.96

12.98

13.00

13.02

13.04

13.06

13.08

13.10

13.12

13.14

13.16

13.18

13.20

13.22

13.24

13.26

13.28

13.30

13.32

13.34

13.36

13.38

13.40

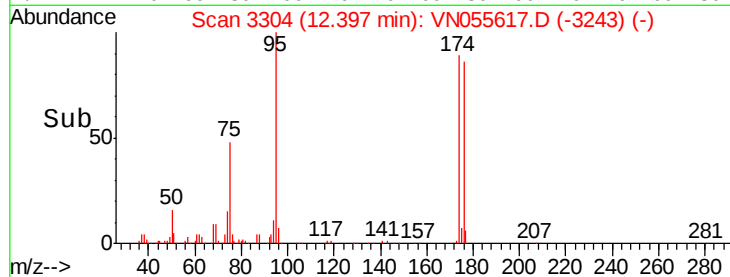
13.42

13.44

13.46

13.48

13.50



#76

1,2,3-Trichloropropane

Concen: 25.739 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055617.D

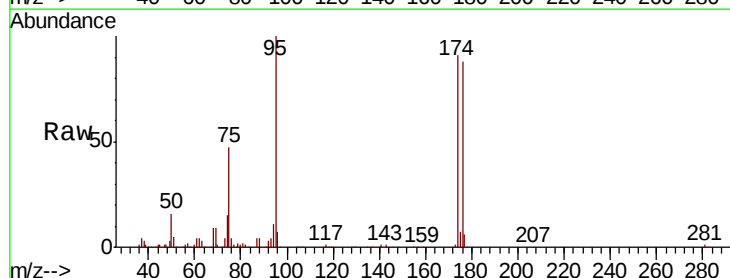
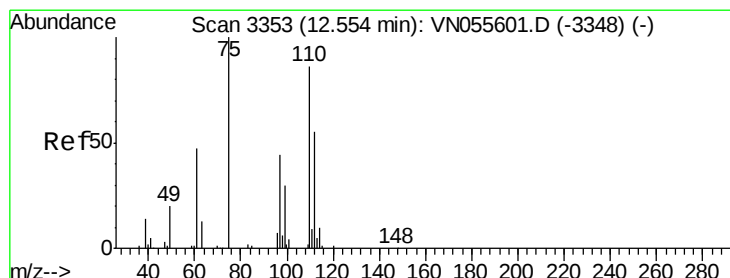
Acq: 17 May 2019 17:56

Tgt Ion: 75 Resp: 99099

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

60000

40000

20000

0

12.35

12.40

12.45

12.50

12.55

12.60

12.65

12.70

12.75

12.80

12.85

12.90

12.95

13.00

13.05

13.10

13.15

13.20

13.25

13.30

13.35

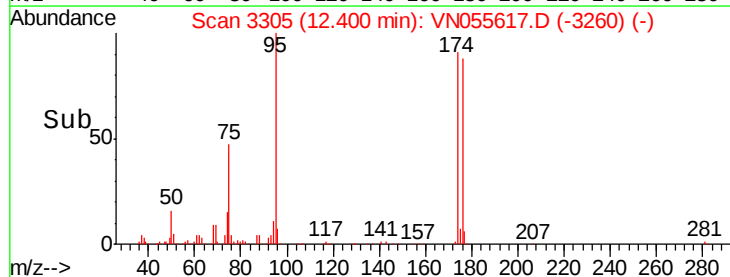
13.40

13.45

13.50

13.55

13.60



Abundance

60000

40000

20000

0

12.35

12.40

12.45

12.50

12.55

12.60

12.65

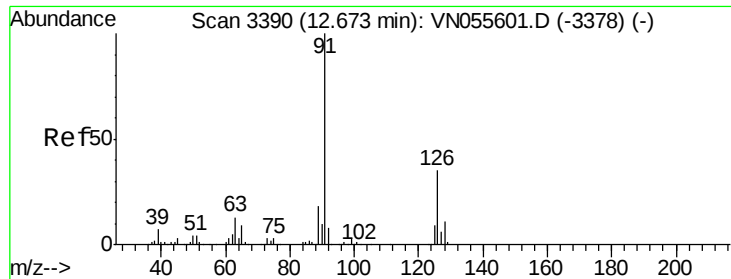
12.70

12.75

12.80

12.85

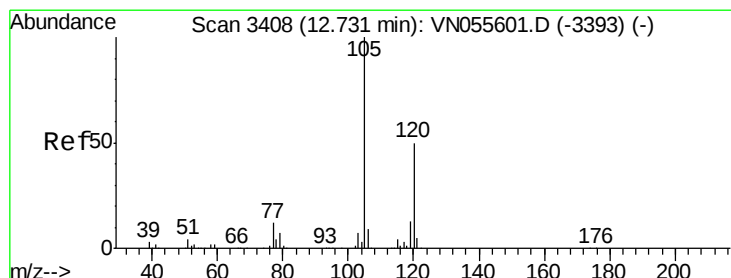
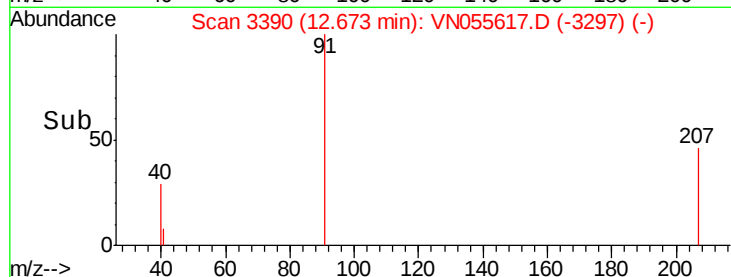
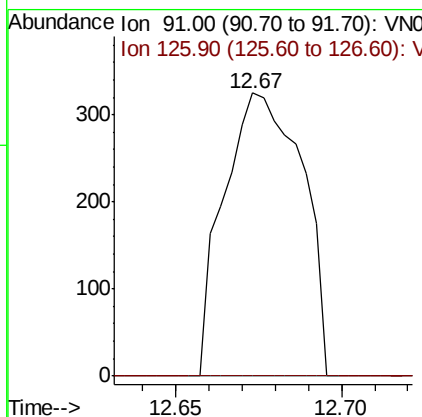
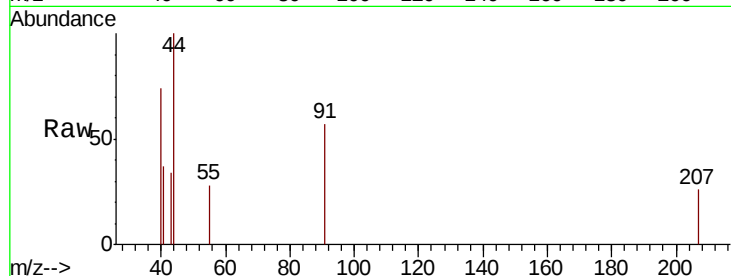
12.90



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.67 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VN055617.D
 Acq: 17 May 2019 17:56

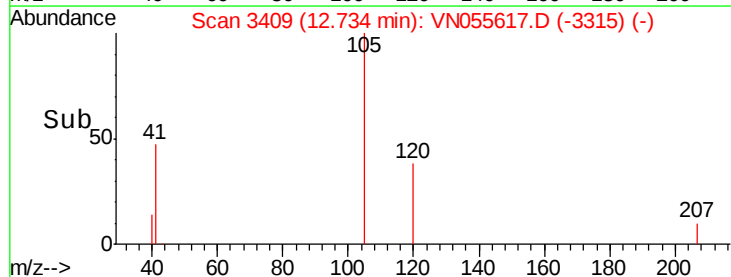
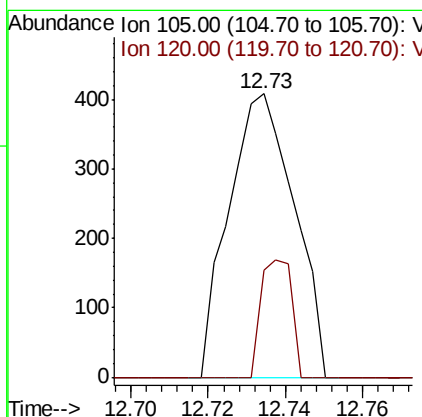
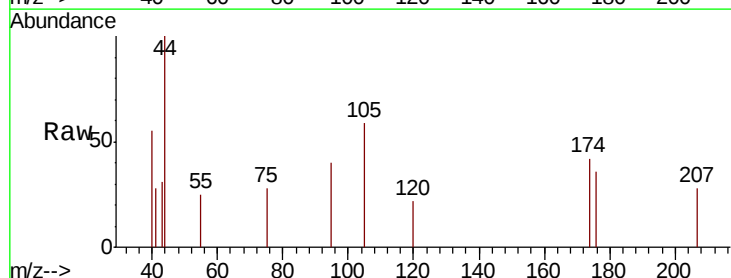
Instrument :
 MSVOA_N
 ClientSampled :

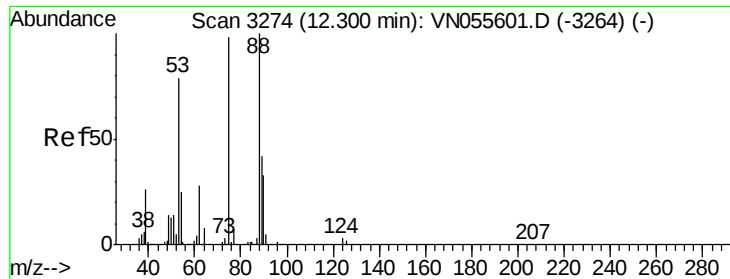
Tot Ion: 91 Resp: 534
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.8 53.4#



#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN055617.D
 Acq: 17 May 2019 17:56

Tgt Ion: 105 Resp: 480
 Ion Ratio Lower Upper
 105 100
 120 19.6 24.6 74.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 66.163 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055617.D

Acq: 17 May 2019 17:56

Instrument :

MSVOA_N

ClientSampleId :

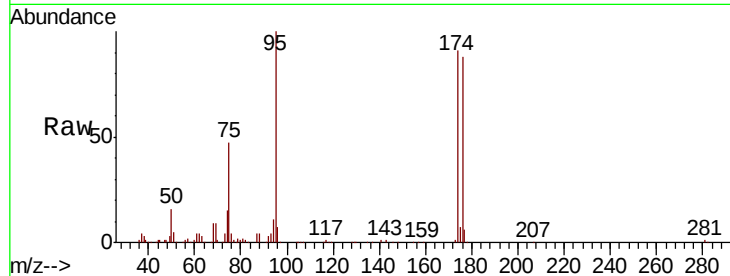
Tot Ion: 75 Resp: 99099

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

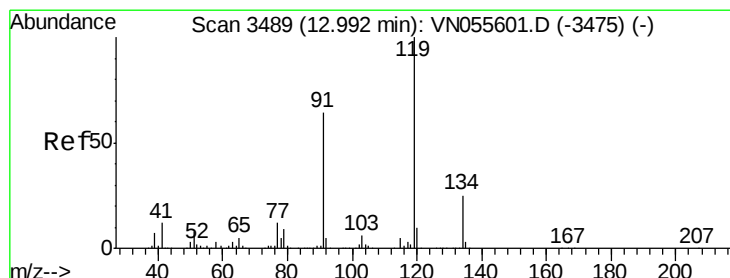
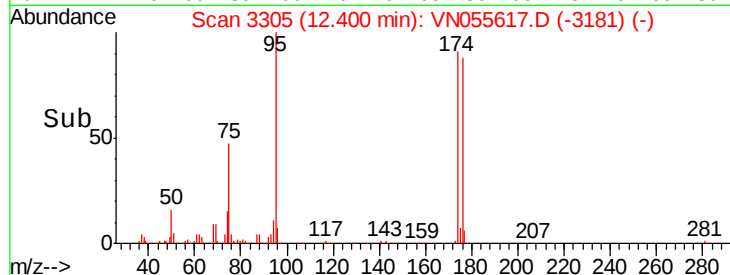
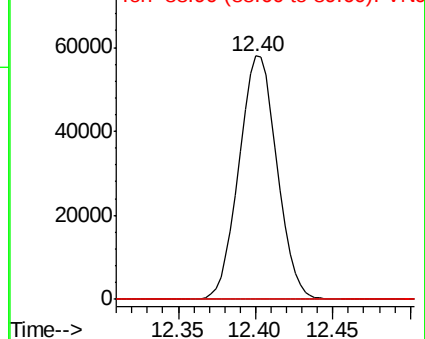
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN055617.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN055617.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN055617.D (-3305) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN055617.D

Acq: 17 May 2019 17:56

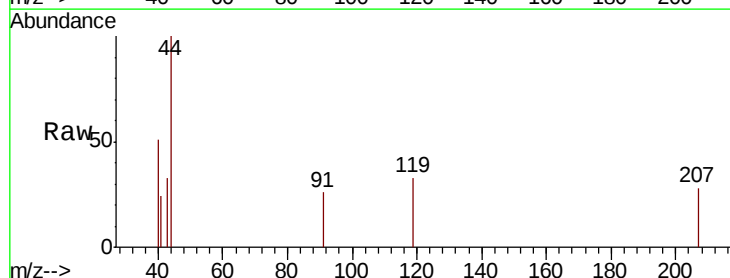
Tgt Ion: 119 Resp: 305

Ion Ratio Lower Upper

119 100

91 57.4 31.3 93.8

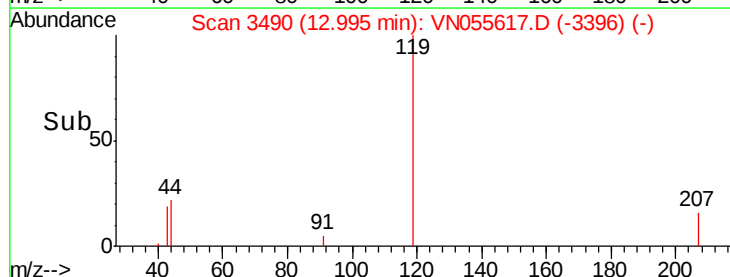
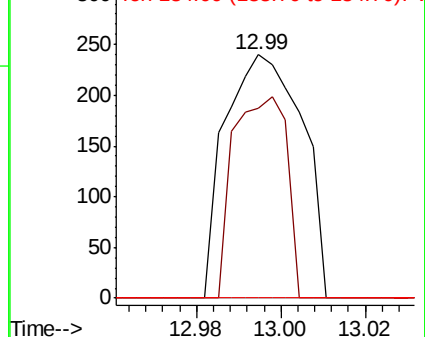
134 0.0 13.2 39.6#

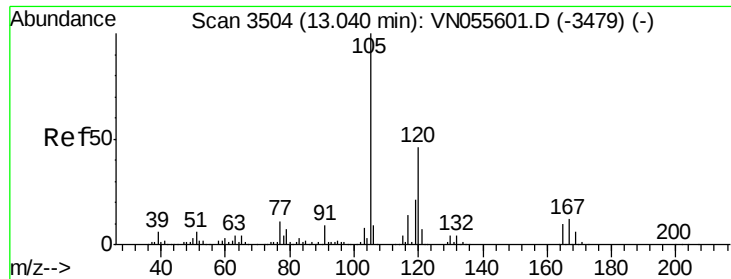


Abundance Ion 119.00 (118.70 to 119.70): VN055617.D (-3489) (-)

Ion 91.00 (90.70 to 91.70): VN055617.D (-3489) (-)

Ion 134.00 (133.70 to 134.70): VN055617.D (-3489) (-)

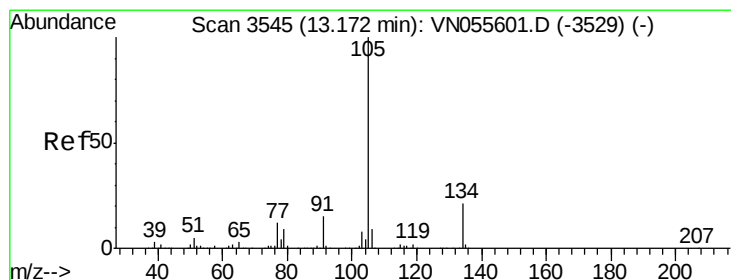
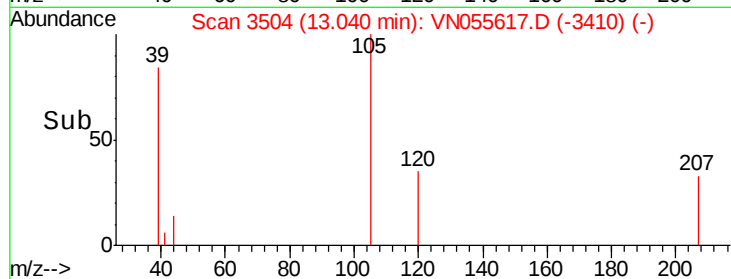
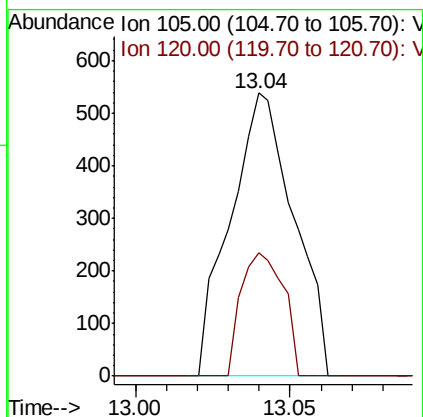
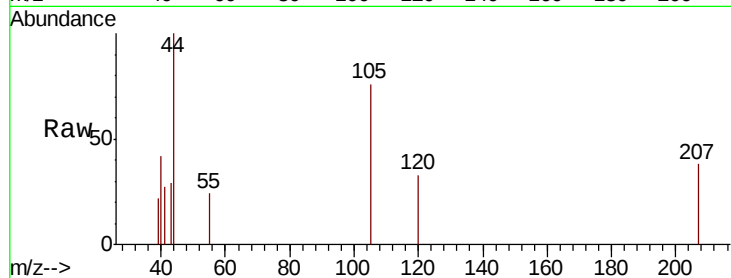




#84
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055617.D
Acq: 17 May 2019 17:56

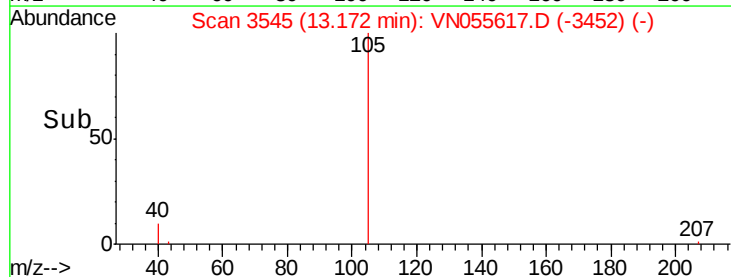
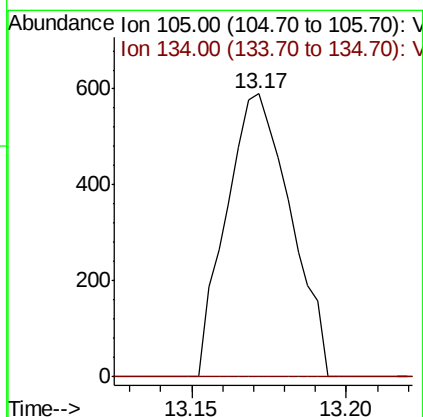
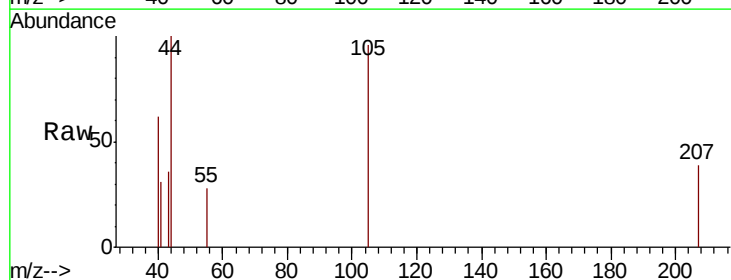
Instrument :
MSVOA_N
ClientSampled :

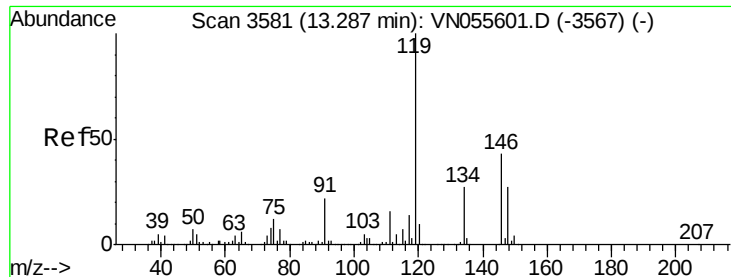
Tot Ion:105 Resp: 772
Ion Ratio Lower Upper
105 100
120 28.9 23.1 69.2



#85
sec-Butylbenzene
Concen: Below Cal
RT: 13.17 min Scan# 3545
Delta R.T. 0.00 min
Lab File: VN055617.D
Acq: 17 May 2019 17:56

Tgt Ion:105 Resp: 853
Ion Ratio Lower Upper
105 100
134 0.0 10.3 30.9#

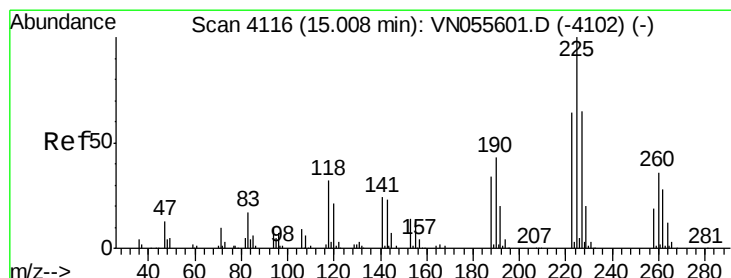
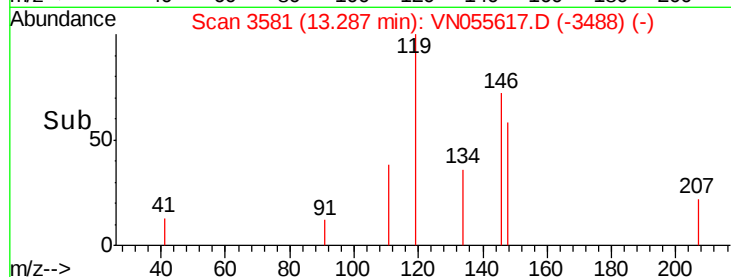
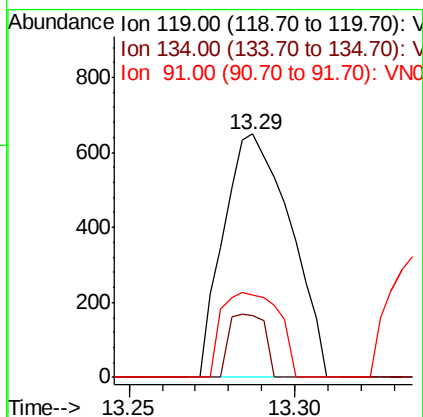
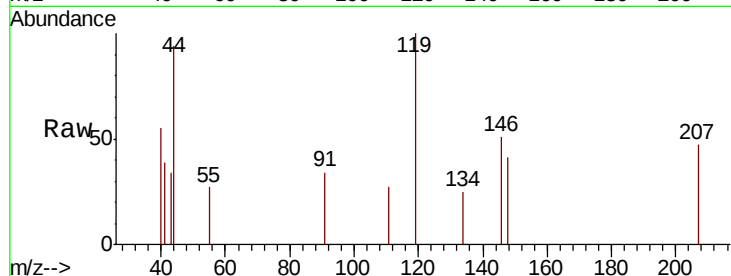




#86
p-Isopropyltoluene
Concen: Below Cal
RT: 13.29 min Scan# 3581
Delta R.T. 0.00 min
Lab File: VN055617.D
Acq: 17 May 2019 17:56

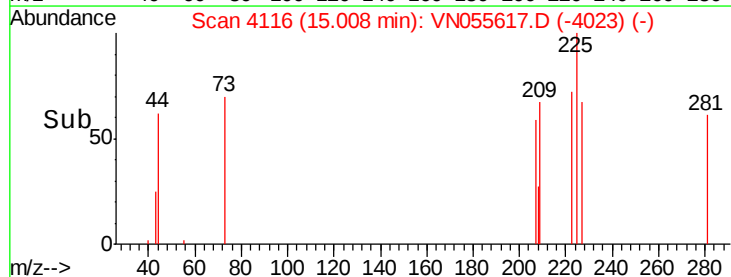
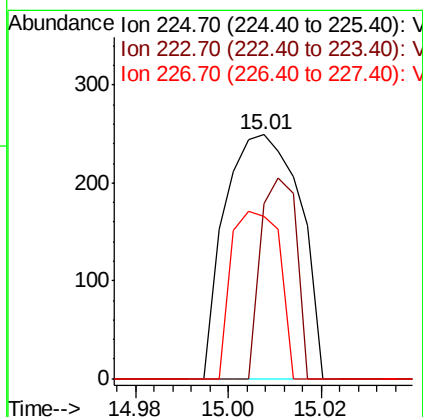
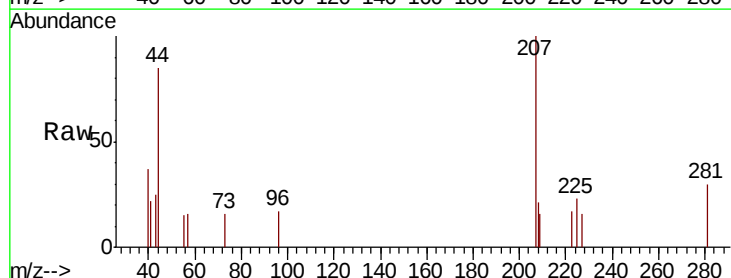
Instrument :
MSVOA_N
ClientSampled :

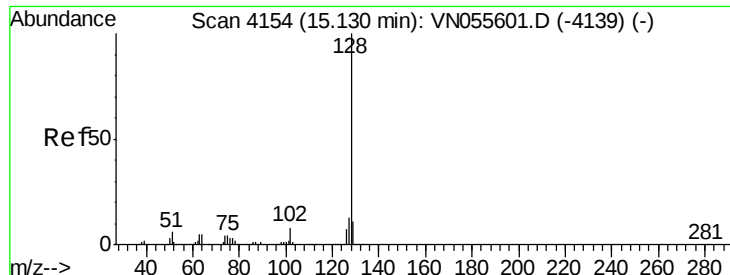
Tot Ion:119 Resp: 912
Ion Ratio Lower Upper
119 100
134 13.7 13.4 40.2
91 29.7 11.0 33.0



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.01 min Scan# 4116
Delta R.T. 0.00 min
Lab File: VN055617.D
Acq: 17 May 2019 17:56

Tgt Ion:225 Resp: 280
Ion Ratio Lower Upper
225 100
223 39.3 31.6 94.7
227 44.3 32.4 97.0





#95

Naphthalene

Concen: 1.972 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

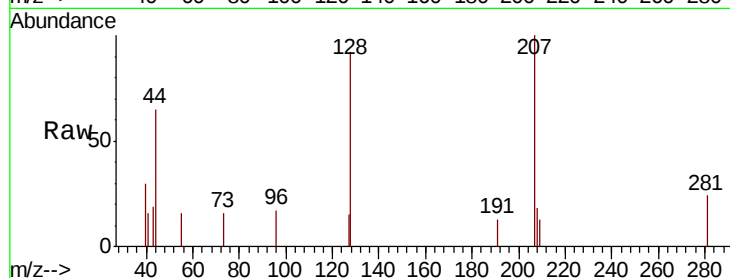
Lab File: VN055617.D

Acq: 17 May 2019 17:56

Instrument :

MSVOA_N

ClientSampleId :



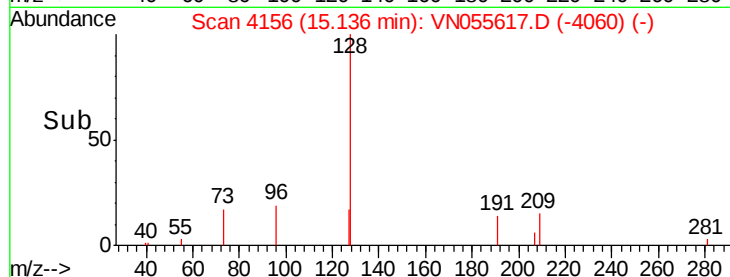
Tot Ion:128 Resp: 2116

Ion Ratio Lower Upper

128 100

127 4.7 10.2 15.4#

129 1.4 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

