

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055611.D
 Acq On : 17 May 2019 15:35
 Operator : JC/SP
 Sample : K2918-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 03:09:28 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

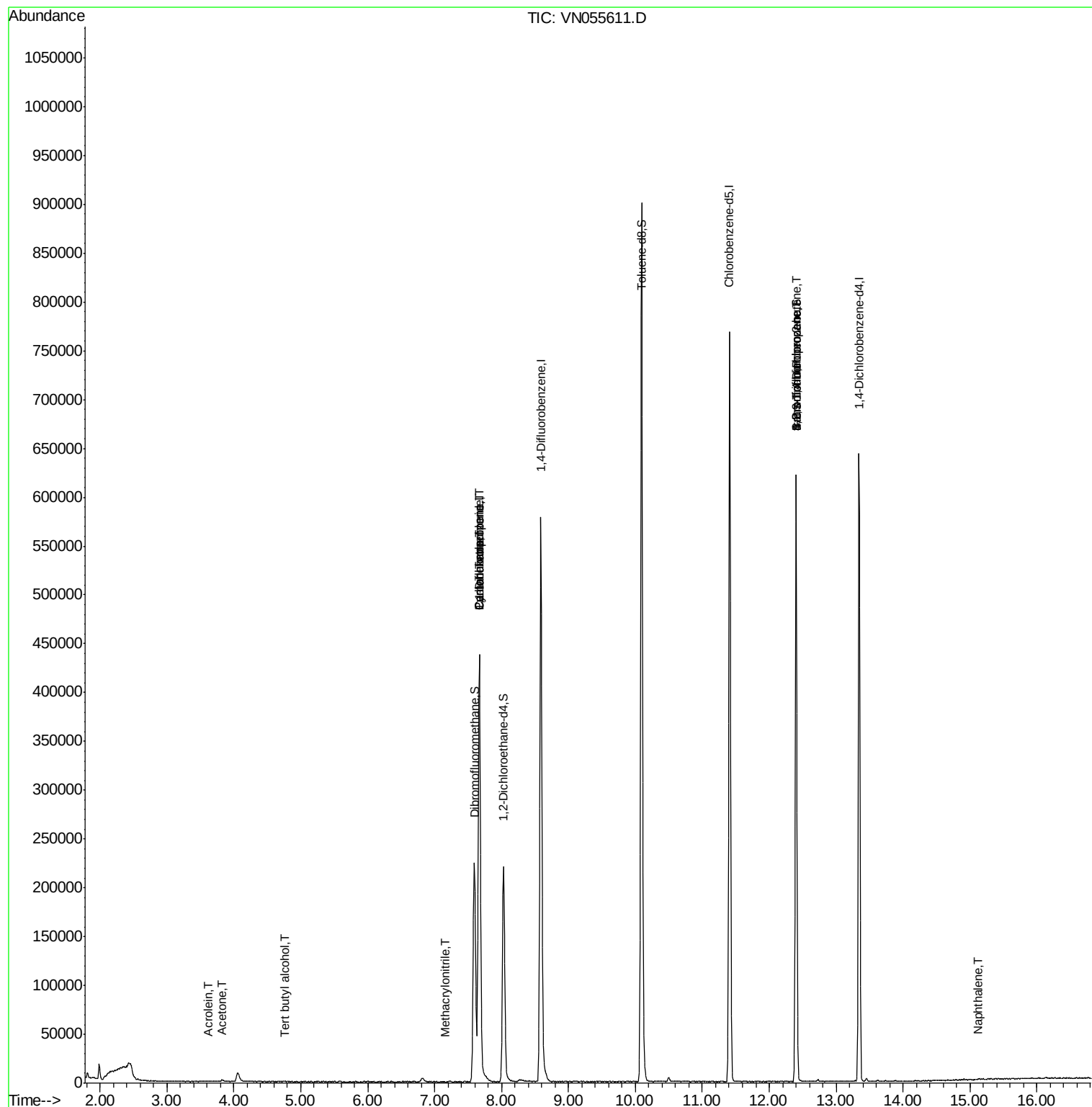
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	413412	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	588189	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	493616	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	189182	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	194379	42.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.78%	
35) Dibromofluoromethane	7.59	113	179935	48.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.32%	
50) Toluene-d8	10.09	98	682447	48.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.60%	
62) 4-Bromofluorobenzene	12.40	95	216740	44.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.86%	
Target Compounds				Qvalue		
11) Tert butyl alcohol	4.76	59	323	0.382	ug/l #	74
13) Acrolein	3.60	56	138	1.680	ug/l #	14
16) Acetone	3.82	43	3085	1.668	ug/l	91
31) Cyclohexane	7.67	56	6941	1.033	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	25313	4.827	ug/l #	48
38) Carbon Tetrachloride	7.67	117	34312	6.123	ug/l #	15
41) Methacrylonitrile	7.17	41	406	0.201	ug/l #	100
71) Bromoform	12.40	173	1368	0.402	ug/l #	1
73) Isopropylbenzene	12.25	105	493	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	99281	25.718	ug/l #	100
79) 2-Chlorotoluene	12.67	91	447	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	345	Below Cal	#	53
81) trans-1,4-Dichloro-2-buten	12.40	75	99281	66.112	ug/l #	17
83) tert-Butylbenzene	12.99	119	185	Below Cal	#	77
84) 1,2,4-Trimethylbenzene	13.04	105	406	Below Cal		68
85) sec-Butylbenzene	13.17	105	662	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	645	Below Cal		86
94) Hexachlorobutadiene	15.01	225	30	Below Cal	#	18
95) Naphthalene	15.14	128	930	1.855	ug/l #	69

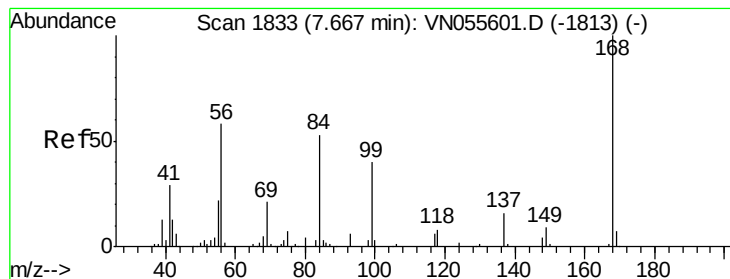
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1833

Delta R.T. 0.00 min

Lab File: VN055611.D

Acq: 17 May 2019 15:35

Instrument :

MSVOA_N

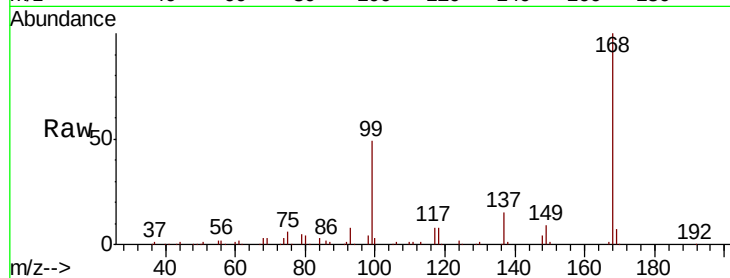
ClientSampled :

Tot Ion:168 Resp: 413412

Ion Ratio Lower Upper

168 100

99 48.9 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

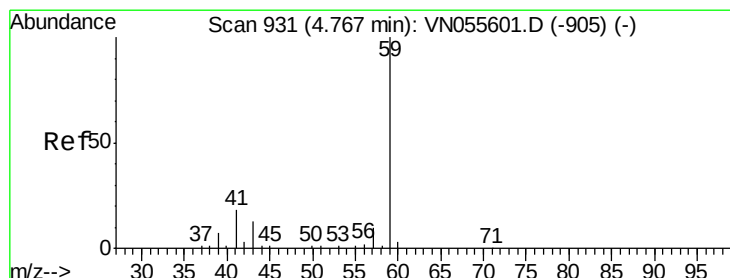
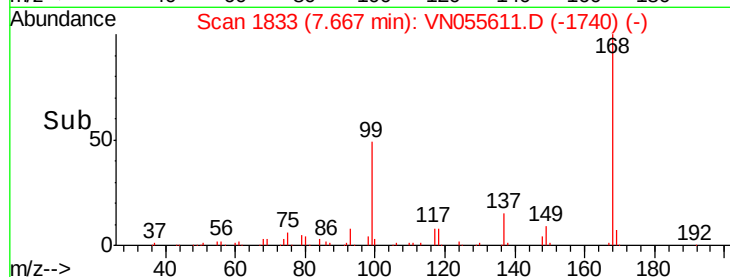
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 0.382 ug/l

RT: 4.76 min Scan# 929

Delta R.T. -0.01 min

Lab File: VN055611.D

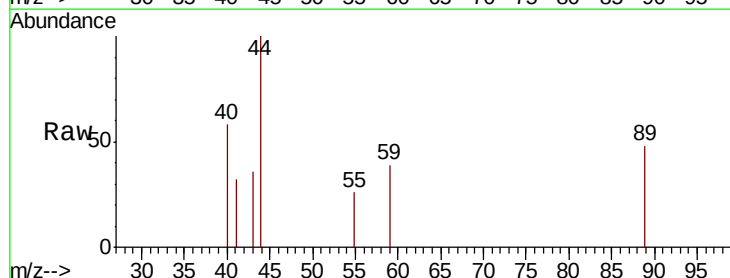
Acq: 17 May 2019 15:35

Tgt Ion: 59 Resp: 323

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.76

250

200

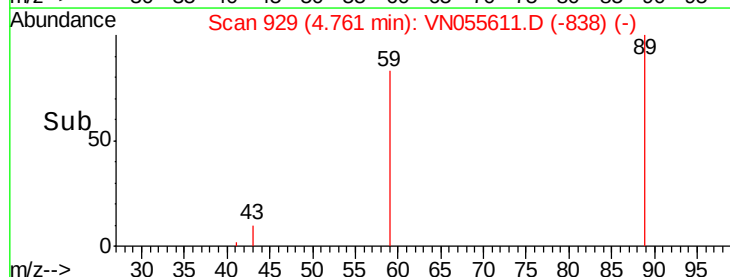
150

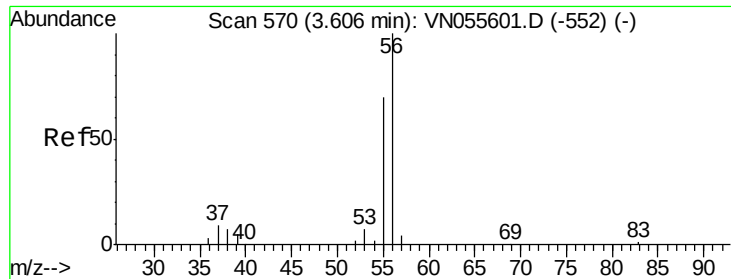
100

50

0

Time--> 4.74 4.76 4.78





#13

Acrolein

Concen: 1.680 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN055611.D

Acq: 17 May 2019 15:35

Instrument :

MSVOA_N

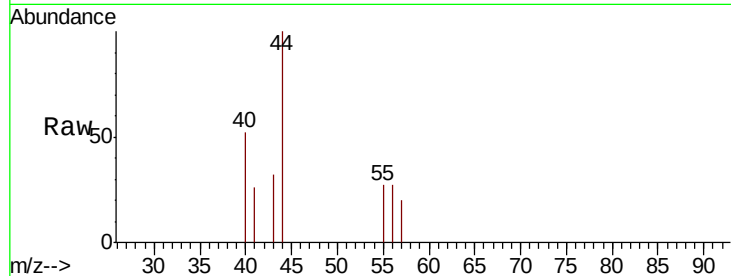
ClientSampled :

Tot Ion: 56 Resp: 138

Ion Ratio Lower Upper

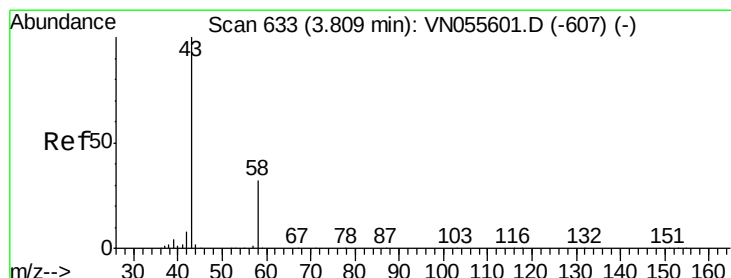
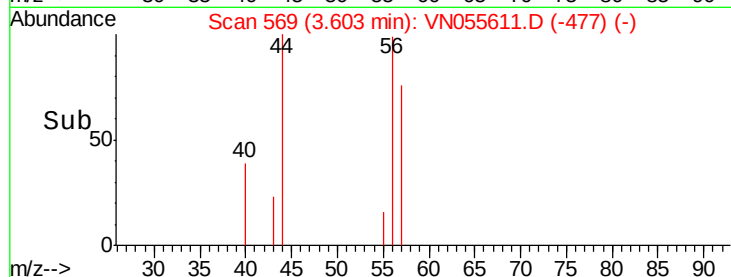
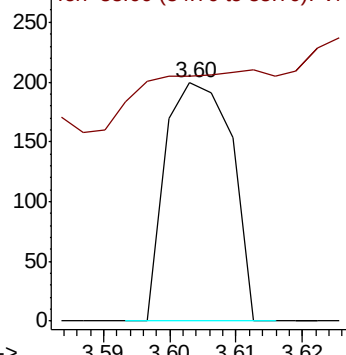
56 100

55 0.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 1.668 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN055611.D

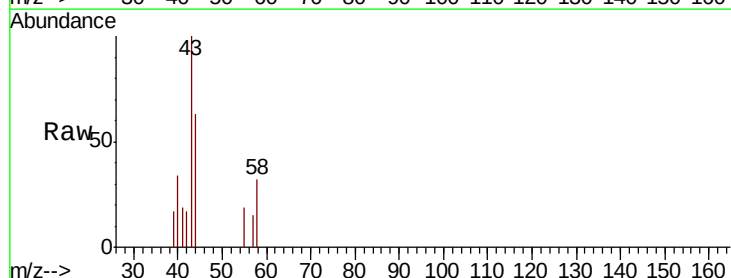
Acq: 17 May 2019 15:35

Tgt Ion: 43 Resp: 3085

Ion Ratio Lower Upper

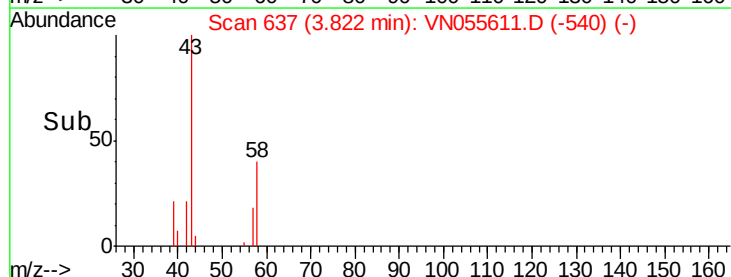
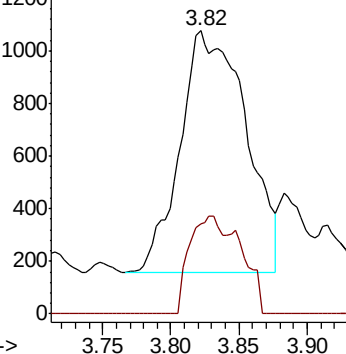
43 100

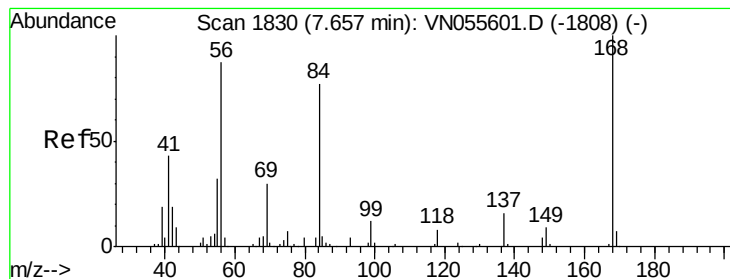
58 37.5 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#31

Cyclohexane

Concen: 1.033 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN055611.D

Acq: 17 May 2019 15:35

Instrument :

MSVOA_N

ClientSampled :

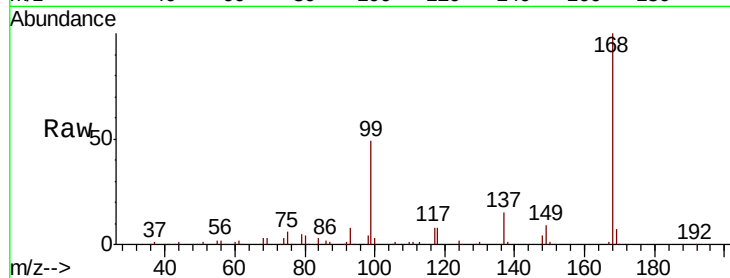
Tot Ion: 56 Resp: 6941

Ion Ratio Lower Upper

56 100

69 185.9 27.2 40.8#

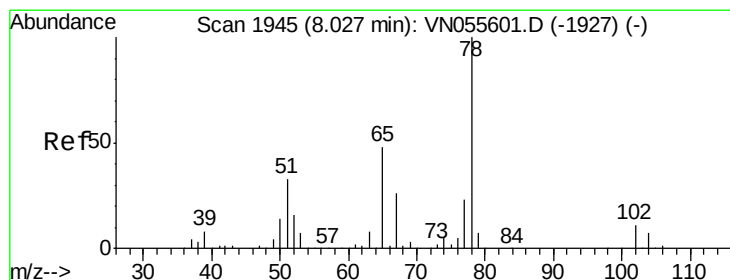
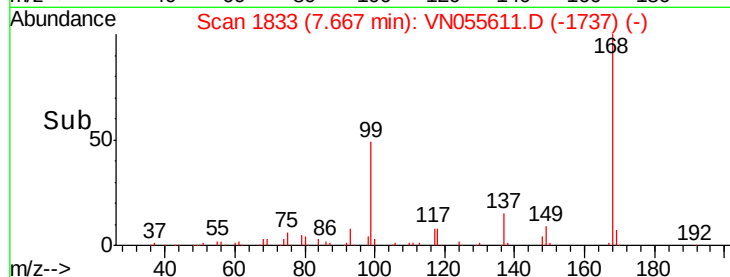
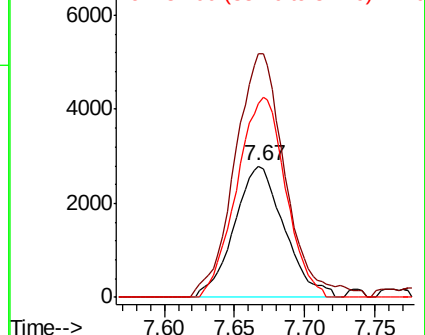
84 148.1 71.3 106.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 42.892 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN055611.D

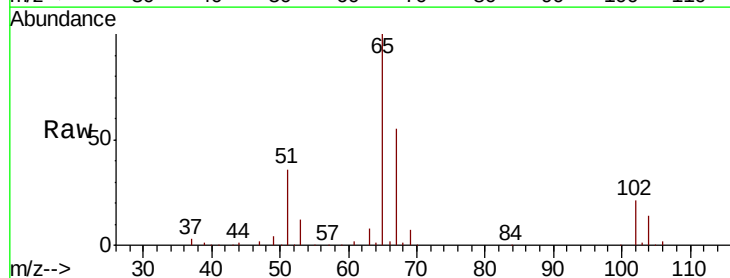
Acq: 17 May 2019 15:35

Tgt Ion: 65 Resp: 194379

Ion Ratio Lower Upper

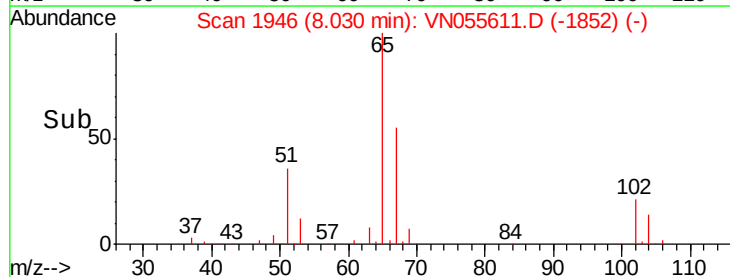
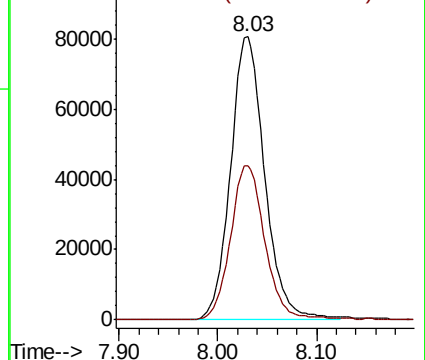
65 100

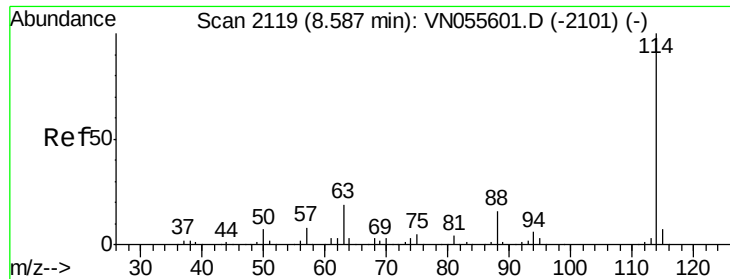
67 55.2 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

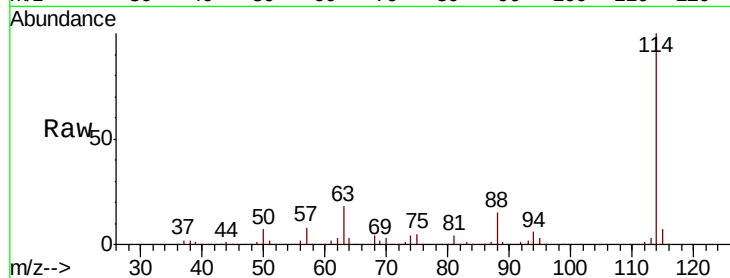




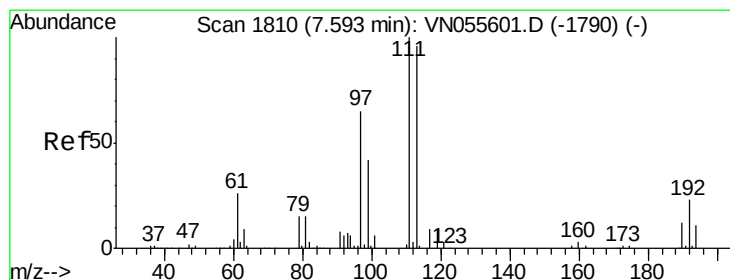
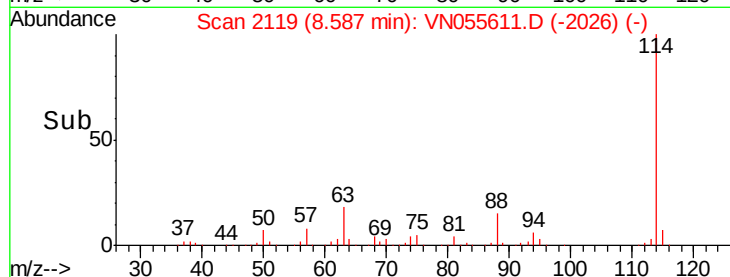
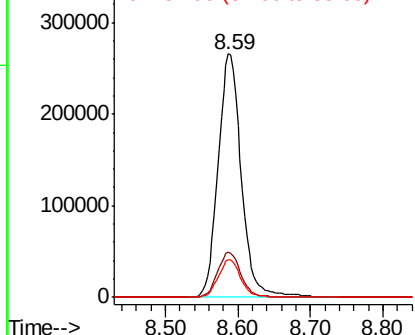
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055611.D
 Acq: 17 May 2019 15:35

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 588189
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 38.2
 88 15.4 0.0 31.0

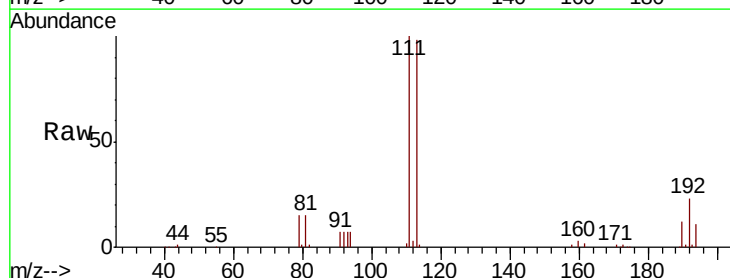


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

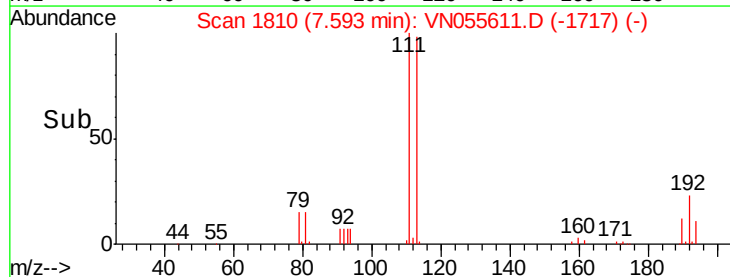
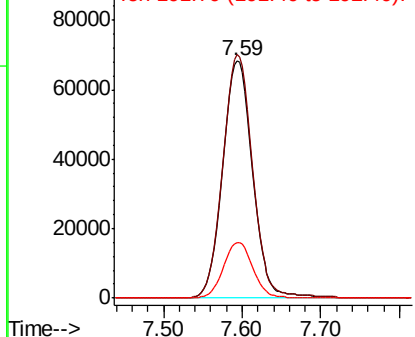


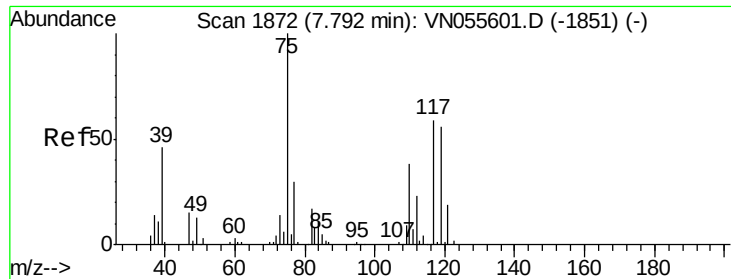
#35
 Dibromofluoromethane
 Concen: 48.157 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055611.D
 Acq: 17 May 2019 15:35

Tgt Ion:113 Resp: 179935
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.5 123.7
 192 23.1 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

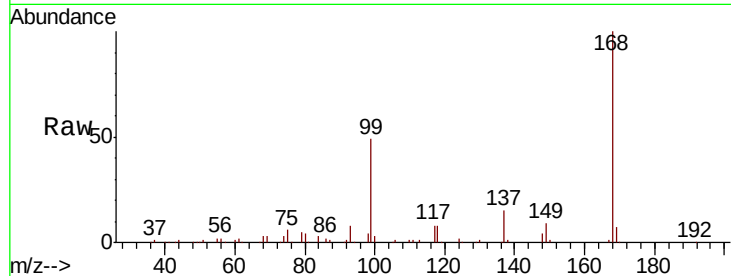




#36
 1,1-Dichloropropene
 Concen: 4.827 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN055611.D
 Acq: 17 May 2019 15:35

Instrument :
 MSVOA_N
 ClientSampled :

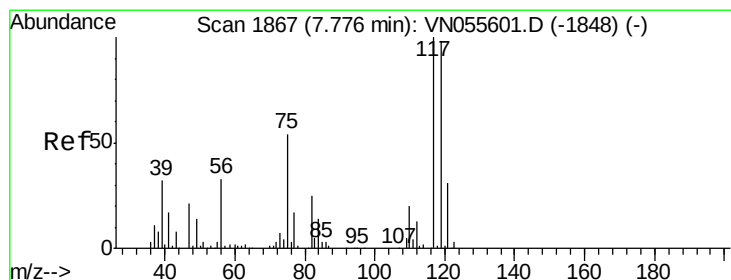
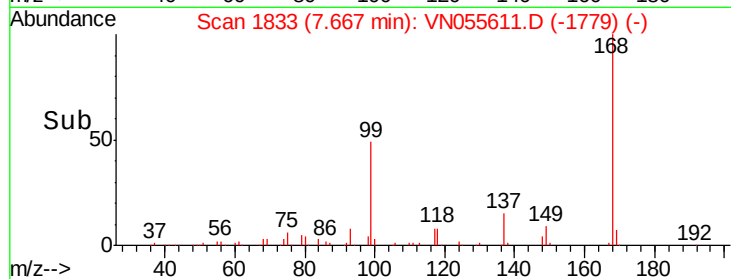
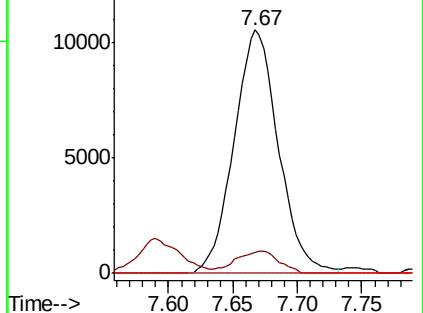
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.6	55.6#
77	0.0	24.9	37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055611.D (-1779) (-)

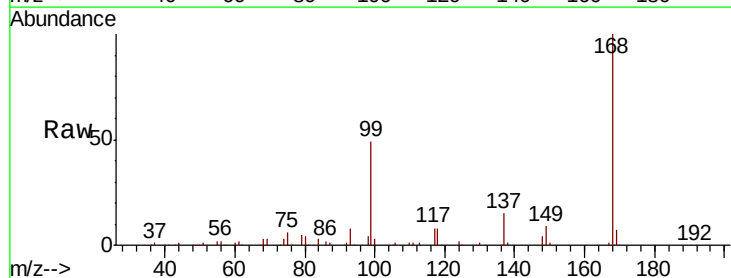
Ion 109.90 (109.60 to 110.60): VN055611.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN055611.D (-1779) (-)



#38
 Carbon Tetrachloride
 Concen: 6.123 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN055611.D
 Acq: 17 May 2019 15:35

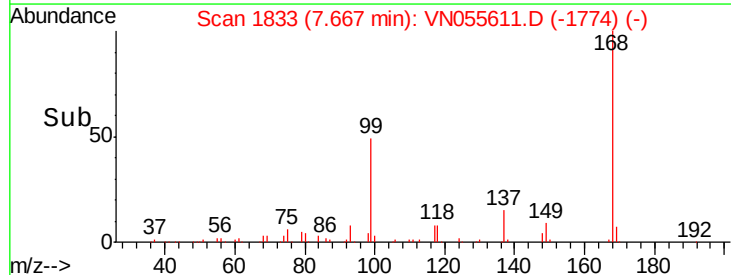
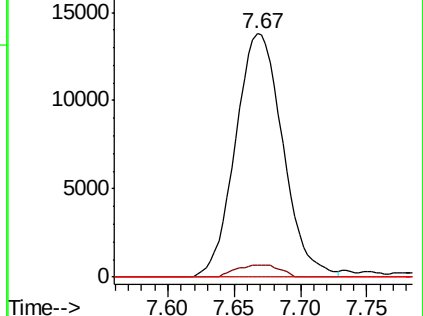
Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	77.8	116.8#
121	0.0	24.6	37.0#

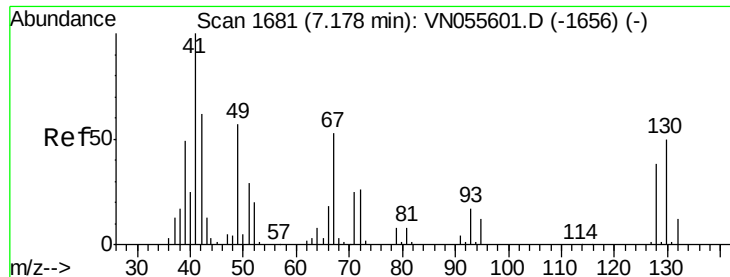


Abundance Ion 116.80 (116.50 to 117.50): VN055611.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN055611.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN055611.D (-1774) (-)

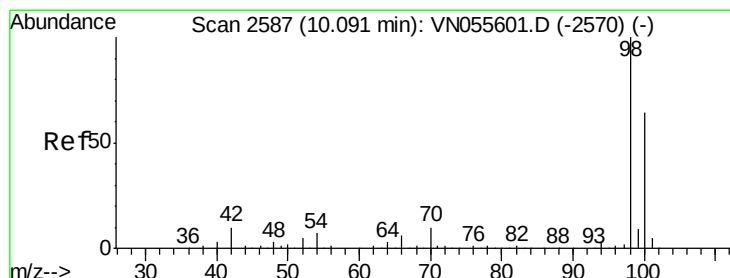
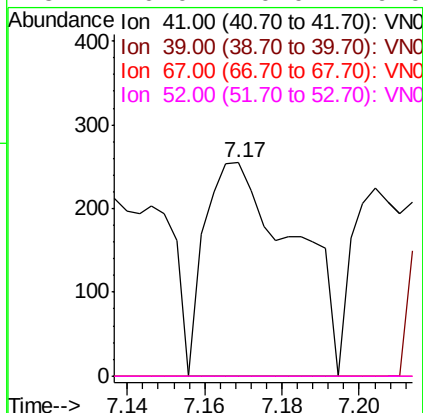
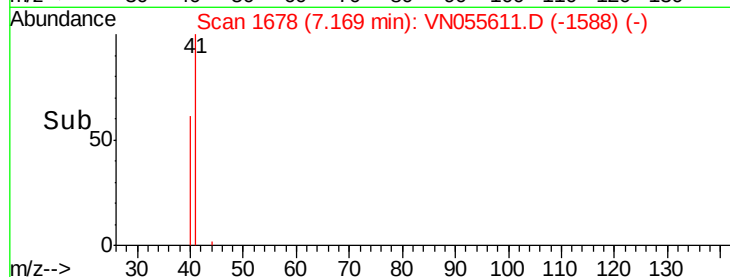
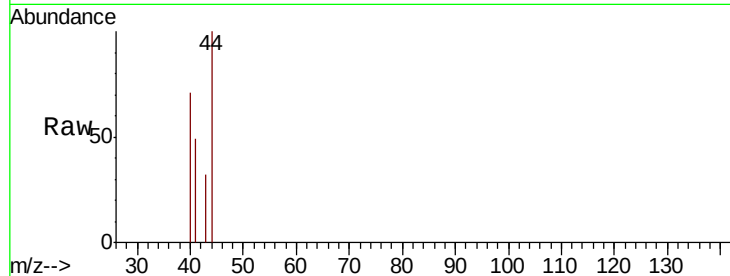




#41
Methacrylonitrile
Concen: 0.201 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.01 min
Lab File: VN055611.D
Acq: 17 May 2019 15:35

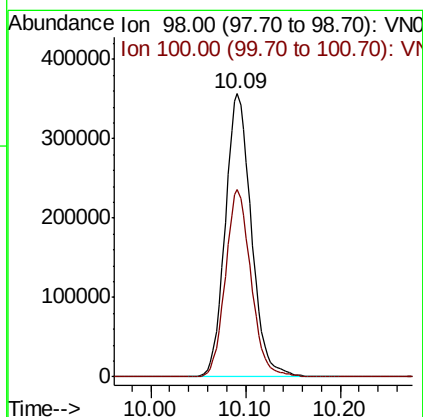
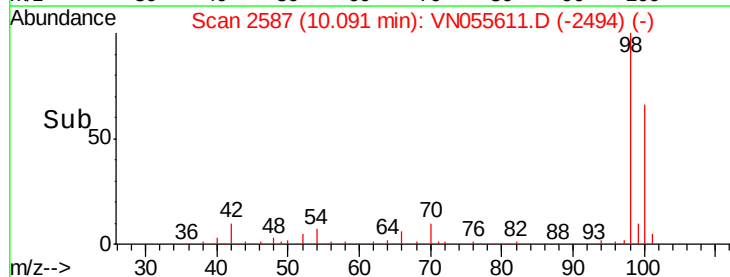
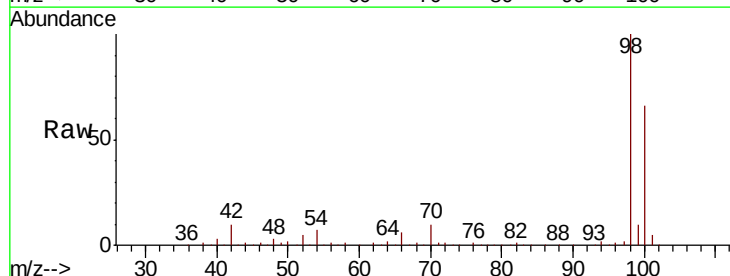
Instrument :
MSVOA_N
ClientSampleId :

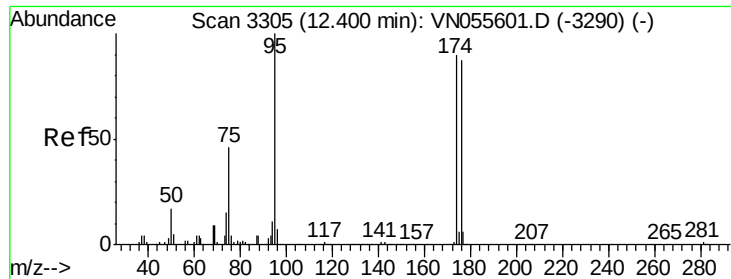
Tot Ion:	41	Resp:	406
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#50
Toluene-d8
Concen: 48.305 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055611.D
Acq: 17 May 2019 15:35

Tgt Ion:	98	Resp:	682447
Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.9	77.9

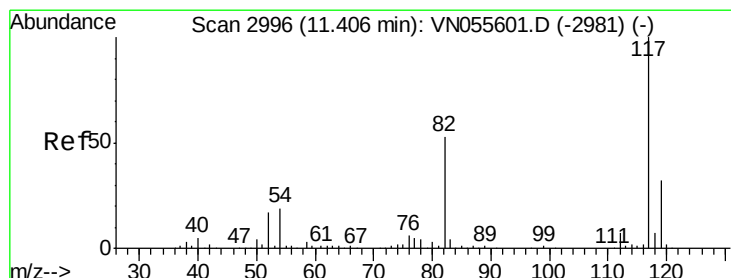
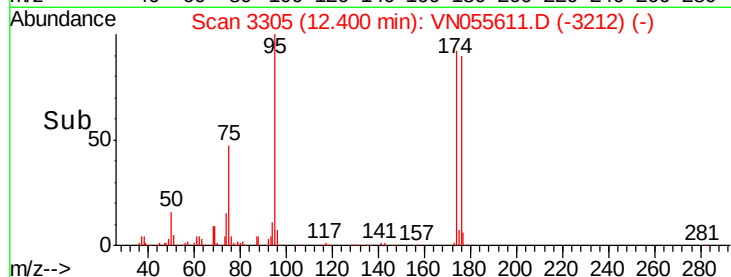
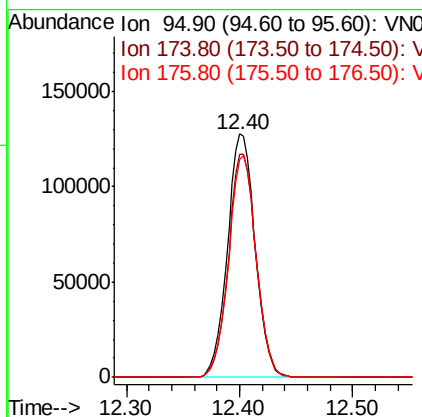
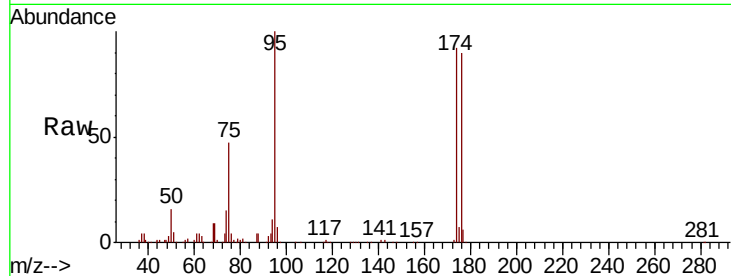




#62
4-Bromofluorobenzene
Concen: 44.427 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055611.D
Acq: 17 May 2019 15:35

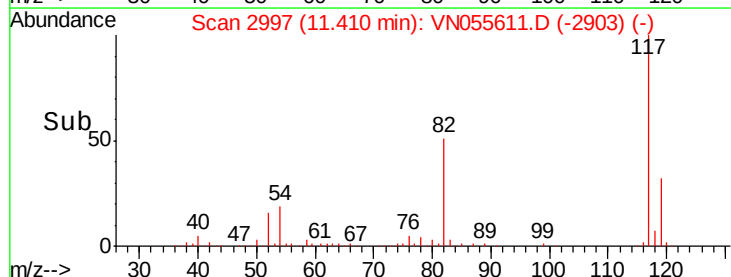
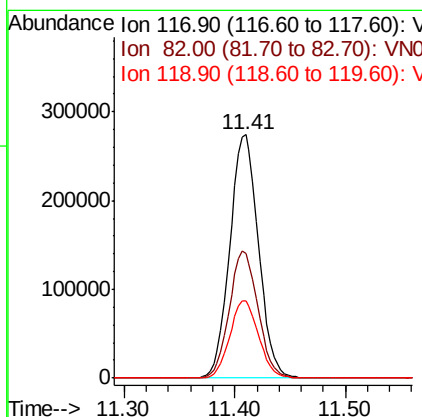
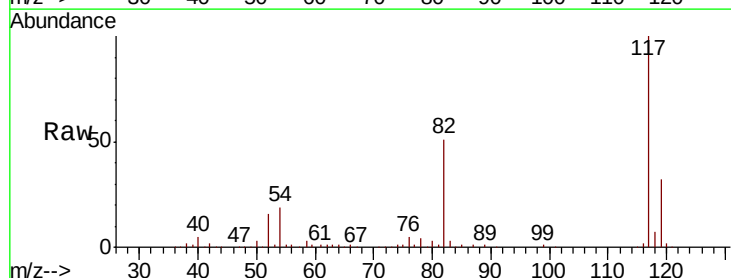
Instrument :
MSVOA_N
ClientSampleId :

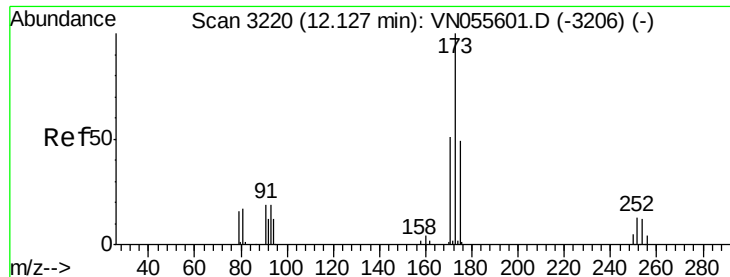
Tot Ion: 95 Resp: 216740
Ion Ratio Lower Upper
95 100
174 91.7 0.0 180.6
176 90.4 0.0 177.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN055611.D
Acq: 17 May 2019 15:35

Tgt Ion: 117 Resp: 493616
Ion Ratio Lower Upper
117 100
82 51.4 42.3 63.5
119 31.8 25.4 38.2





#71

Bromoform

Concen: 0.402 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055611.D

Acq: 17 May 2019 15:35

Instrument :

MSVOA_N

ClientSampleId :

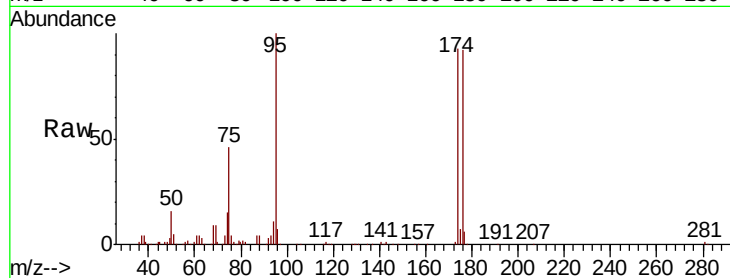
Tot Ion:173 Resp: 1368

Ion Ratio Lower Upper

173 100

175 930.8 24.3 72.9#

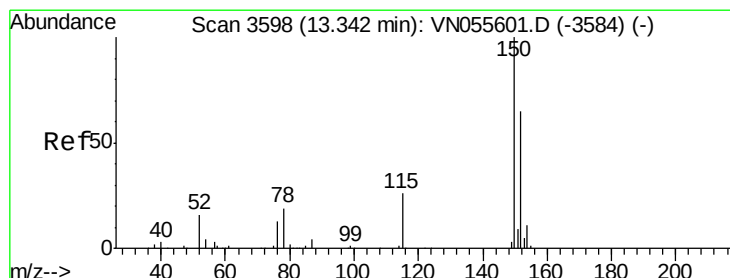
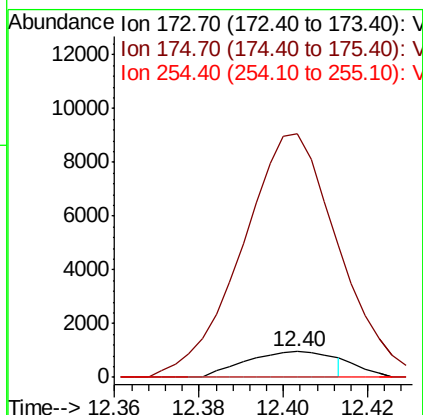
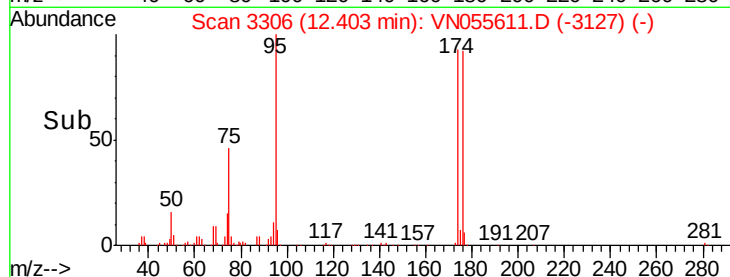
254 0.0 0.1 0.1#



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: VN055611.D

Acq: 17 May 2019 15:35

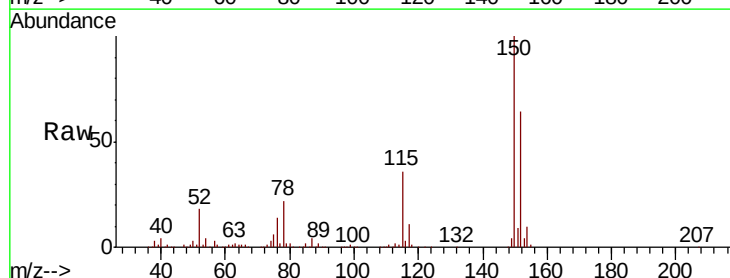
Tgt Ion:152 Resp: 189182

Ion Ratio Lower Upper

152 100

115 55.6 28.1 84.2

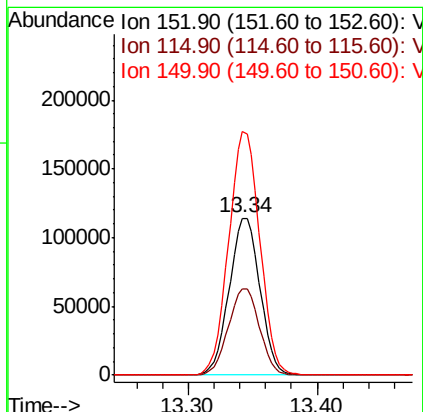
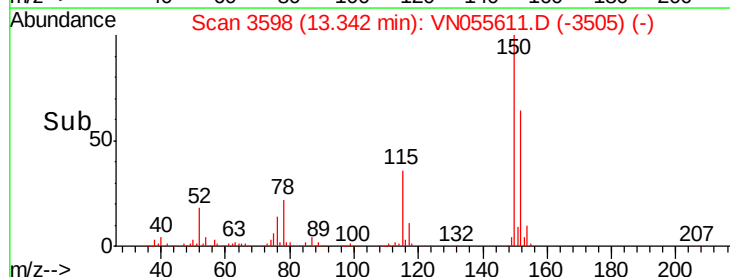
150 156.3 0.0 348.0

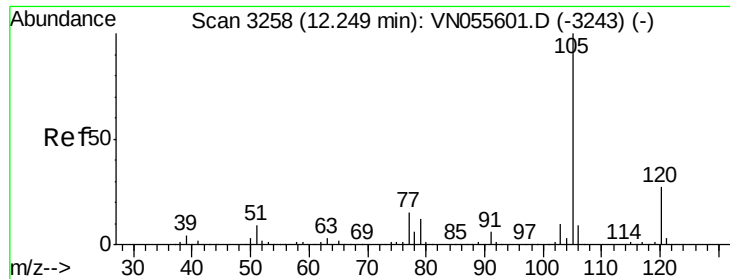


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN055611.D

Acq: 17 May 2019 15:35

Instrument :

MSVOA_N

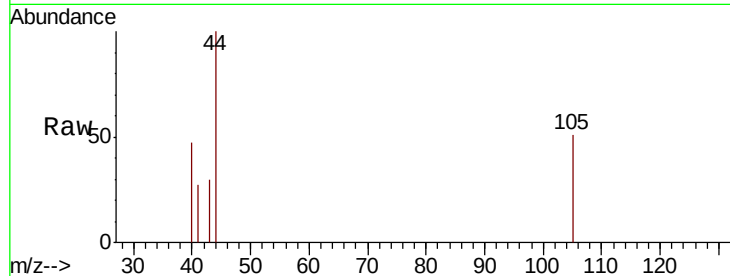
ClientSampleId :

Tot Ion:105 Resp: 493

Ion Ratio Lower Upper

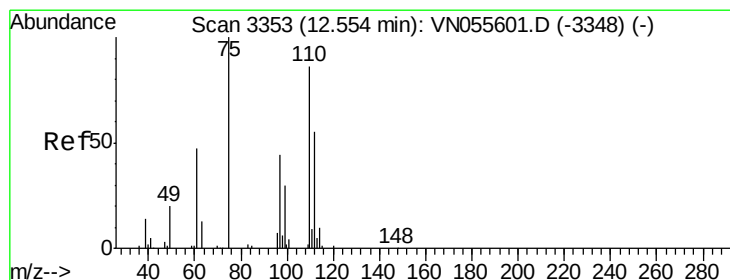
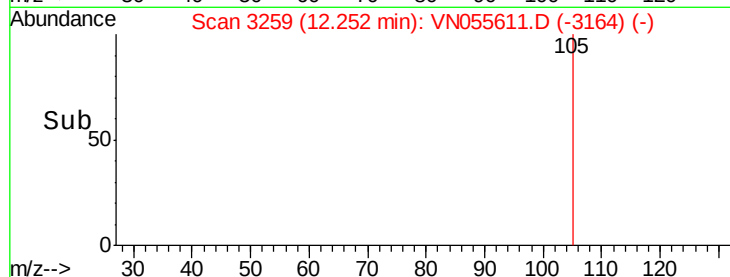
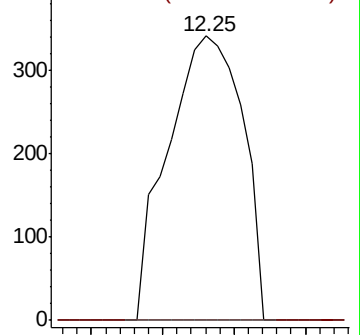
105 100

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



#76

1,2,3-Trichloropropane

Concen: 25.718 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055611.D

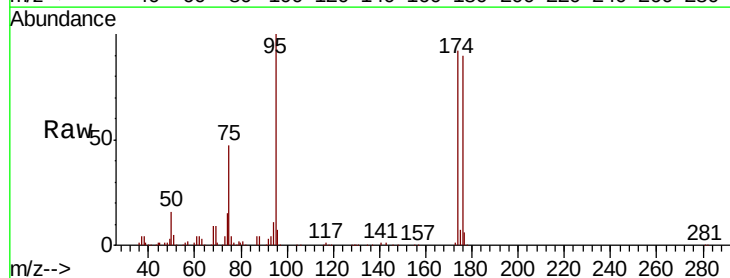
Acq: 17 May 2019 15:35

Tgt Ion: 75 Resp: 99281

Ion Ratio Lower Upper

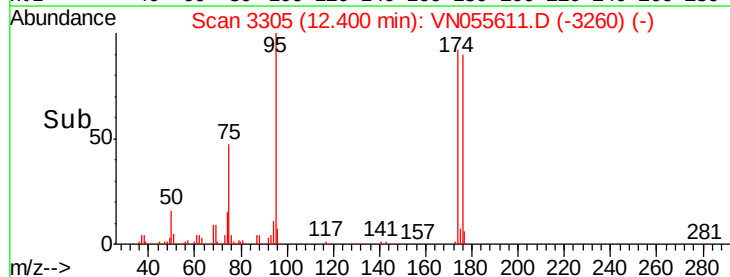
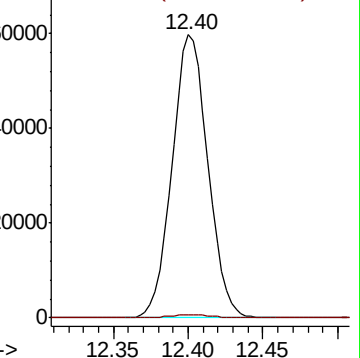
75 100

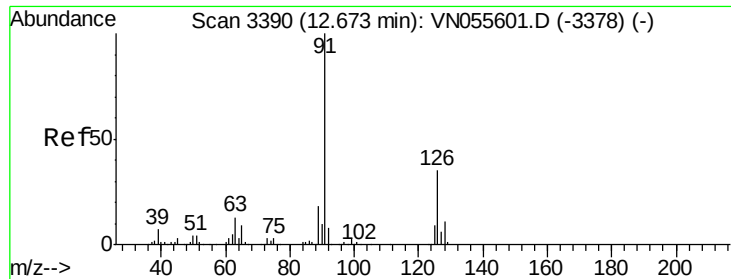
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055611.D

Acq: 17 May 2019 15:35

Instrument :

MSVOA_N

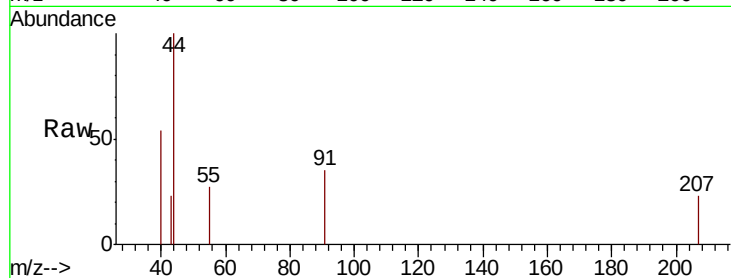
ClientSampled :

Tot Ion: 91 Resp: 447

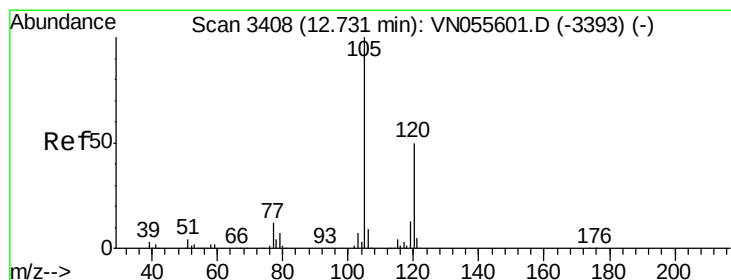
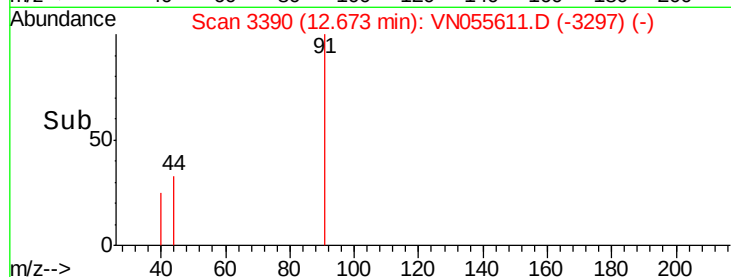
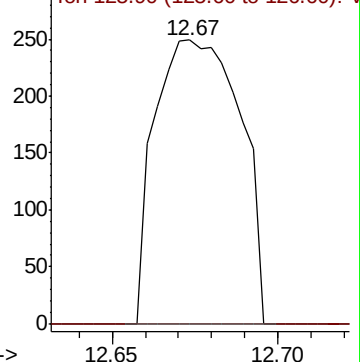
Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055611.D (-3390) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055611.D

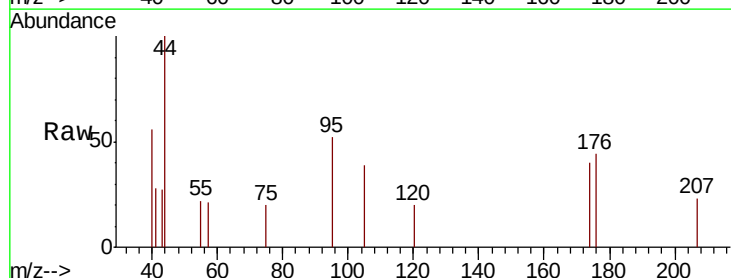
Acq: 17 May 2019 15:35

Tgt Ion: 105 Resp: 345

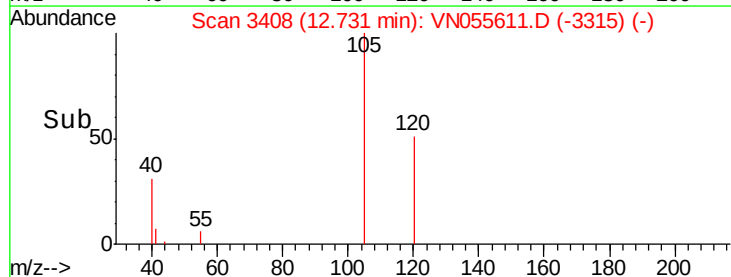
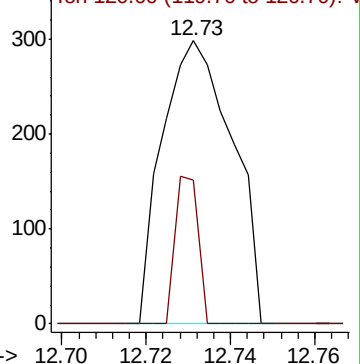
Ion Ratio Lower Upper

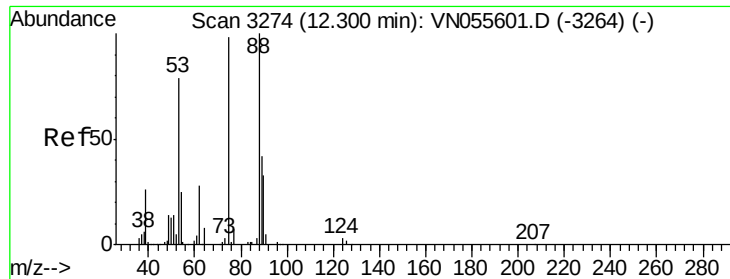
105 100

120 17.1 24.6 74.0#



Abundance Ion 105.00 (104.70 to 105.70): VN055611.D (-3408) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 66.112 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055611.D

Acq: 17 May 2019 15:35

Instrument :

MSVOA_N

ClientSampleId :

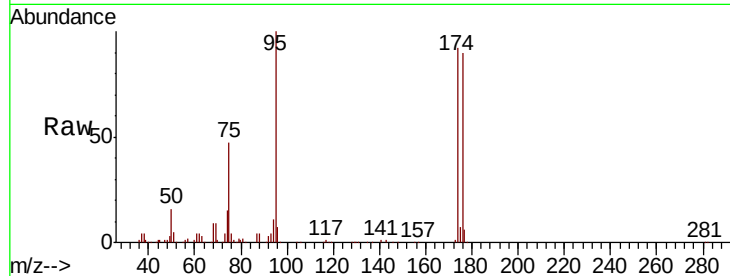
Tot Ion: 75 Resp: 99281

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

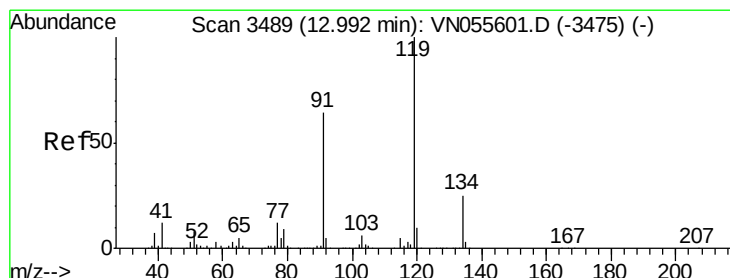
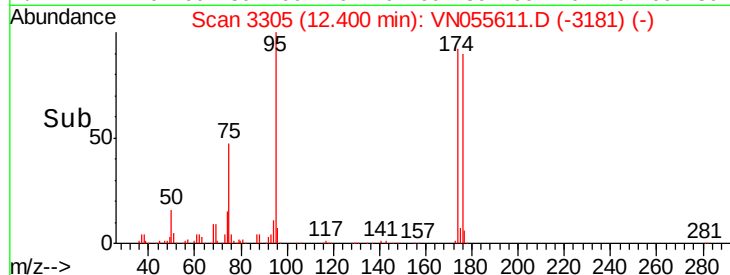
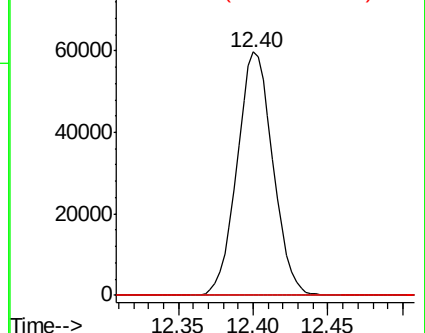
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN055611.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN055611.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN055611.D (-3305) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055611.D

Acq: 17 May 2019 15:35

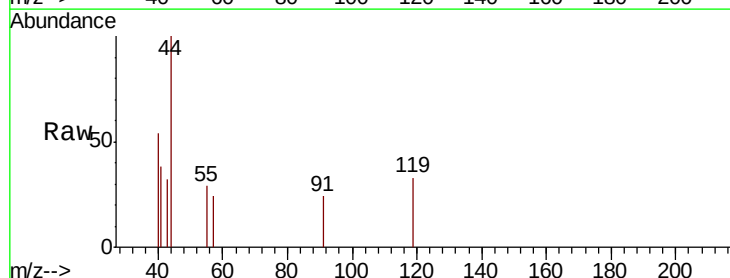
Tgt Ion: 119 Resp: 185

Ion Ratio Lower Upper

119 100

91 53.5 31.3 93.8

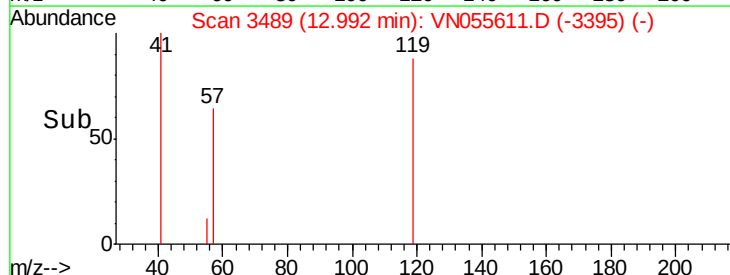
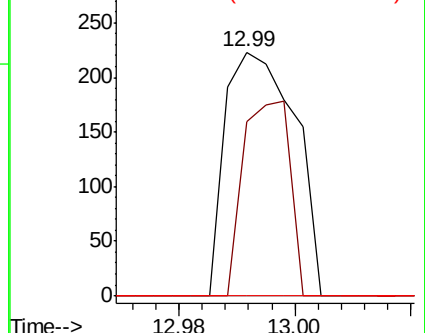
134 0.0 13.2 39.6#

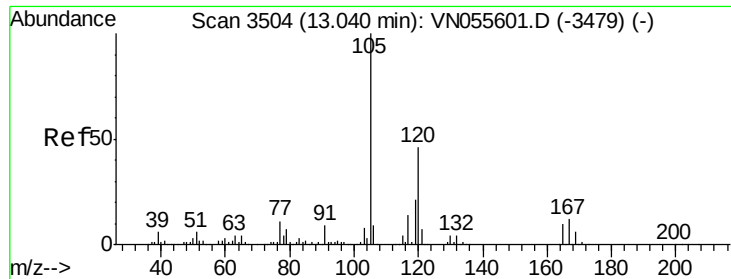


Abundance Ion 119.00 (118.70 to 119.70): VN055611.D (-3489) (-)

Ion 91.00 (90.70 to 91.70): VN055611.D (-3489) (-)

Ion 134.00 (133.70 to 134.70): VN055611.D (-3489) (-)

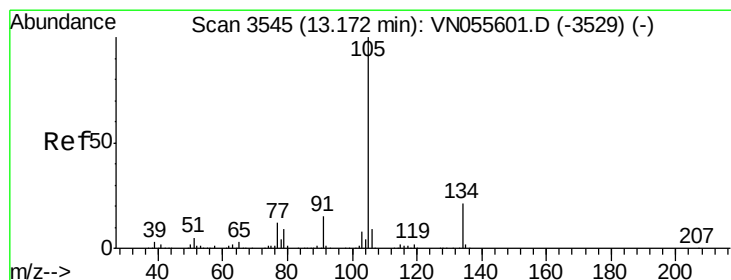
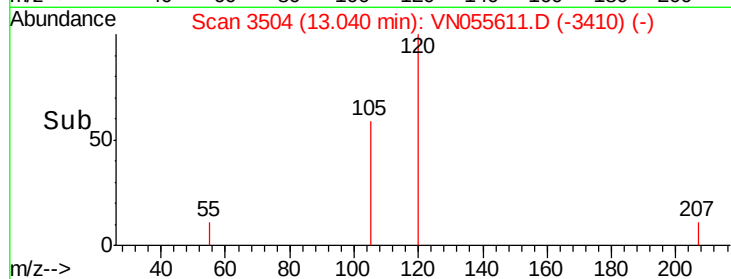
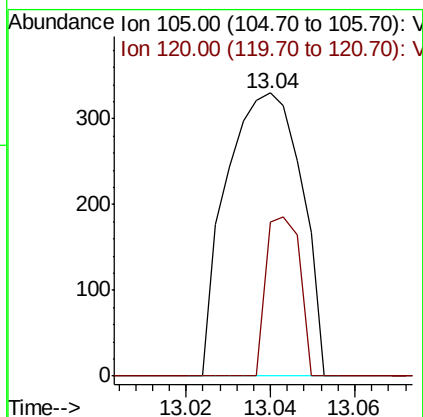
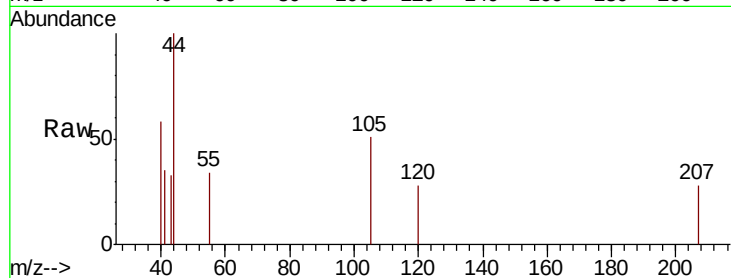




#84
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055611.D
Acq: 17 May 2019 15:35

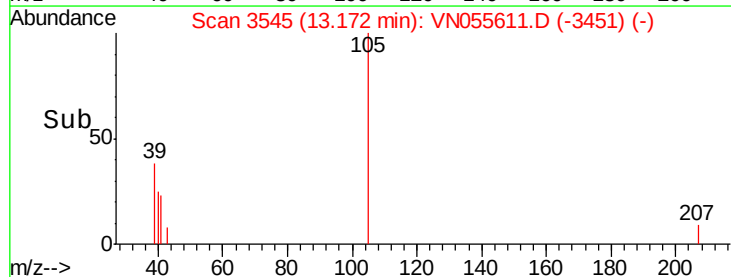
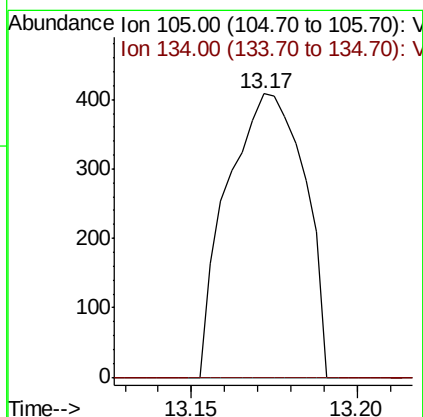
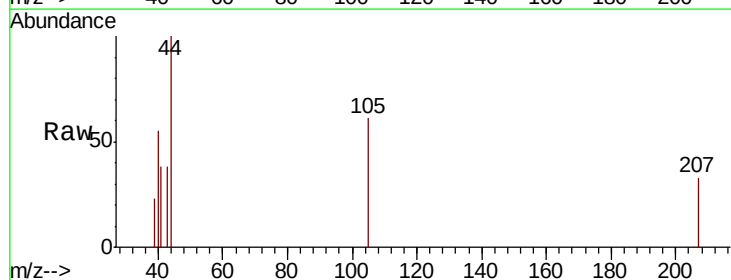
Instrument :
MSVOA_N
ClientSampleId :

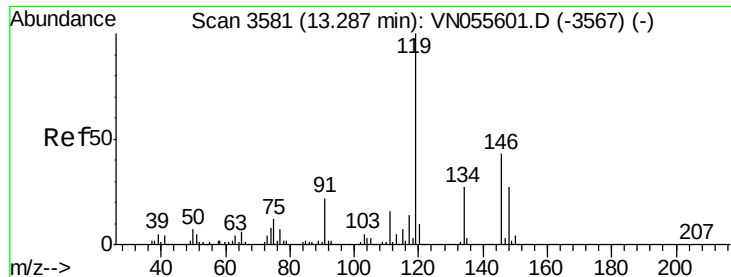
Tot Ion:105 Resp: 406
Ion Ratio Lower Upper
105 100
120 25.1 23.1 69.2



#85
sec-Butylbenzene
Concen: Below Cal
RT: 13.17 min Scan# 3545
Delta R.T. 0.00 min
Lab File: VN055611.D
Acq: 17 May 2019 15:35

Tgt Ion:105 Resp: 662
Ion Ratio Lower Upper
105 100
134 0.0 10.3 30.9#





#86

p-Isopropyltoluene

Concen: Below Cal

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN055611.D

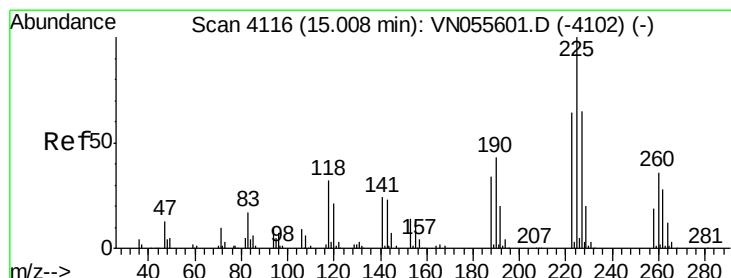
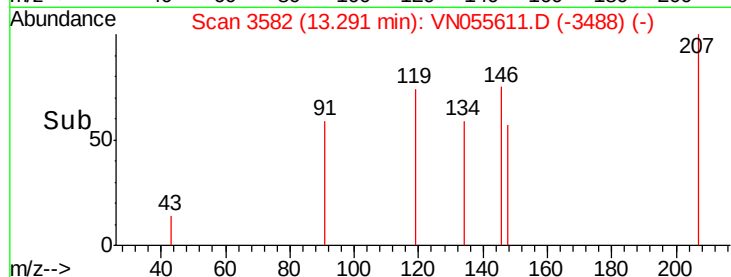
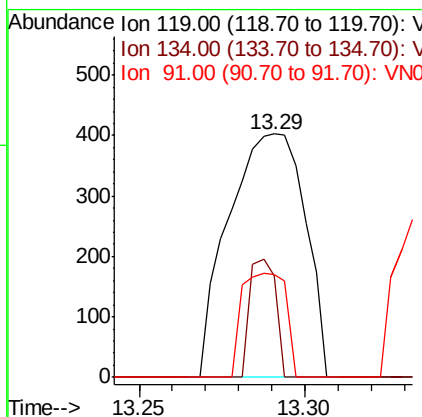
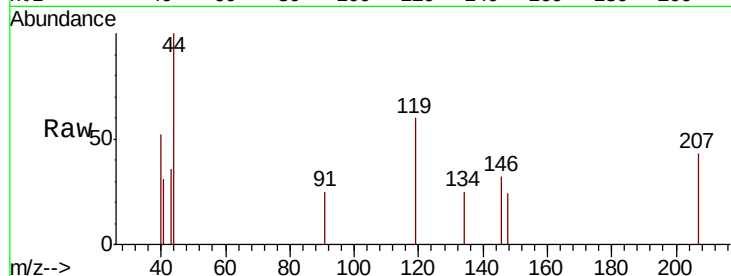
Acq: 17 May 2019 15:35

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	119	Resp:	645
Ion	Ratio	Lower	Upper
119	100		
134	16.4	13.4	40.2
91	24.7	11.0	33.0



#94

Hexachlorobutadiene

Concen: Below Cal

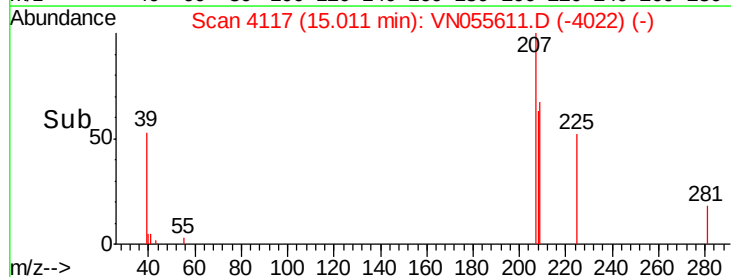
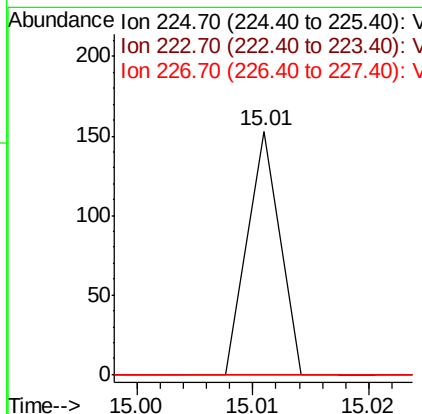
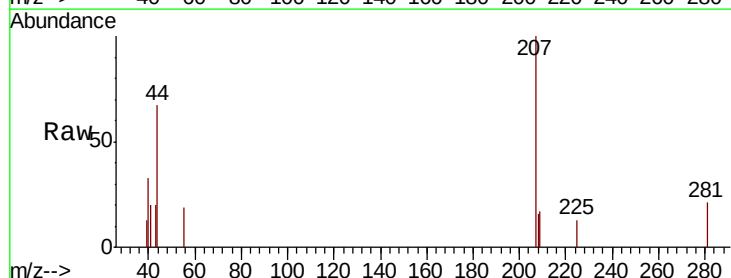
RT: 15.01 min Scan# 4117

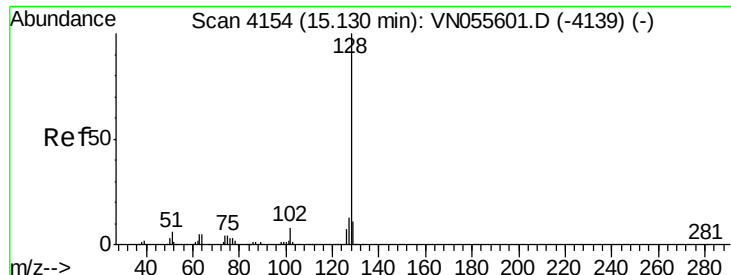
Delta R.T. 0.00 min

Lab File: VN055611.D

Acq: 17 May 2019 15:35

Tgt Ion:	225	Resp:	30
Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.6	94.7#
227	0.0	32.4	97.0#





#95

Naphthalene

Concen: 1.855 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

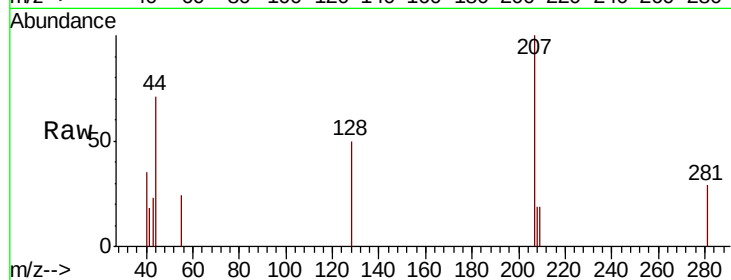
Lab File: VN055611.D

Acq: 17 May 2019 15:35

Instrument :

MSVOA_N

ClientSampleId :



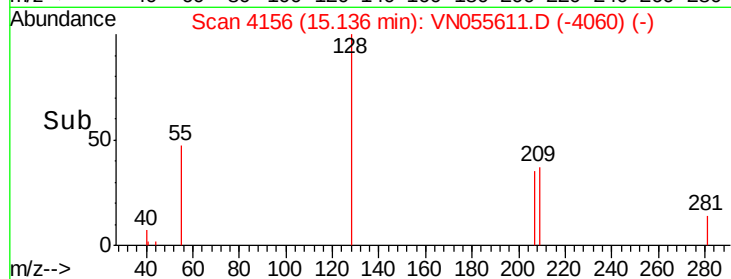
Tot Ion:128 Resp: 930

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

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

