

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055619.D
 Acq On : 17 May 2019 18:44
 Operator : JC/SP
 Sample : K2903-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 03:11:22 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

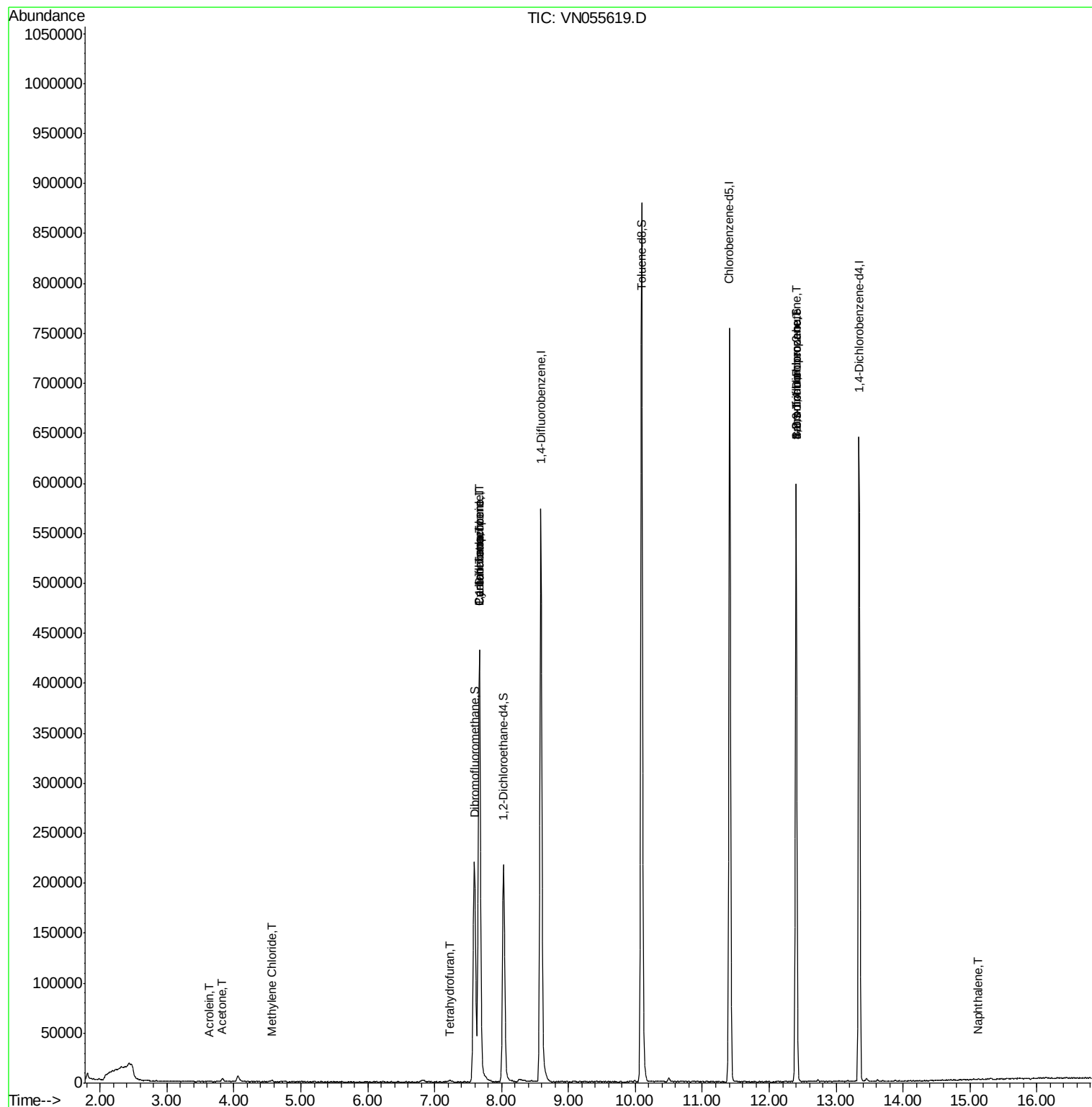
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	405379	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	577922	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	482115	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	186847	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	191950	43.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.40%	
35) Dibromofluoromethane	7.59	113	176722	48.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.28%	
50) Toluene-d8	10.09	98	665909	47.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.94%	
62) 4-Bromofluorobenzene	12.40	95	210746	43.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.94%	
Target Compounds						
					Qvalue	
13) Acrolein	3.63	56	196	1.823	ug/l #	50
16) Acetone	3.83	43	4746	2.617	ug/l	98
20) Methylene Chloride	4.56	84	1351	0.326	ug/l	91
29) Tetrahydrofuran	7.23	42	1006	0.599	ug/l #	62
31) Cyclohexane	7.67	56	6527	0.990	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	24349	4.726	ug/l #	48
38) Carbon Tetrachloride	7.67	117	34015	6.178	ug/l #	16
71) Bromoform	12.40	173	1397	0.420	ug/l #	1
73) Isopropylbenzene	12.25	105	297	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	97976	25.698	ug/l #	100
79) 2-Chlorotoluene	12.68	91	386	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	308	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	97976	66.058	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.04	105	412	Below Cal		75
85) sec-Butylbenzene	13.17	105	440	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	601	Below Cal	#	51
95) Naphthalene	15.14	128	725	1.836	ug/l #	69

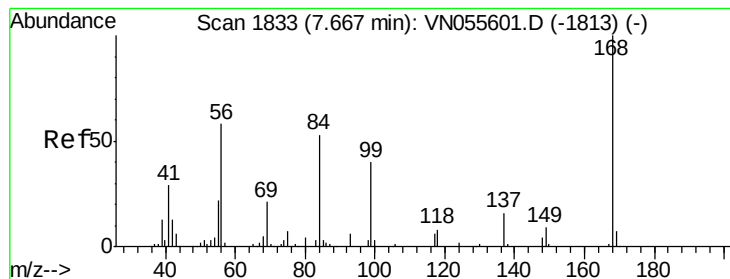
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN055619.D

Acq: 17 May 2019 18:44

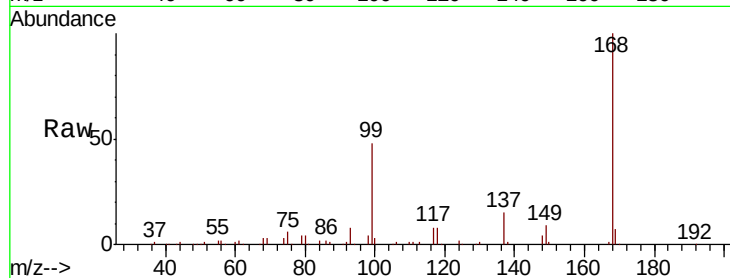
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 405379

Ion Ratio Lower Upper

168 100

99 48.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN055619.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055619.D (-1740) (-)

7.67

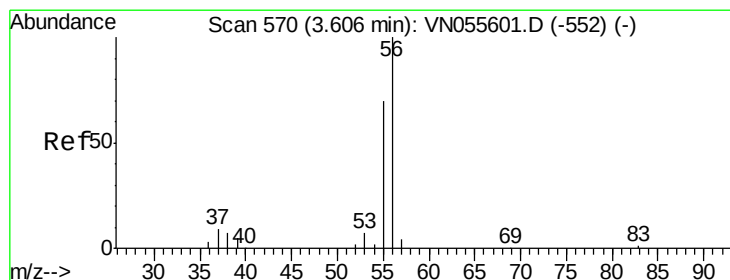
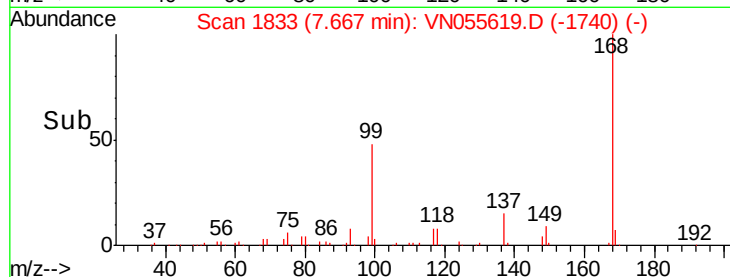
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 1.823 ug/l

RT: 3.63 min Scan# 577

Delta R.T. 0.02 min

Lab File: VN055619.D

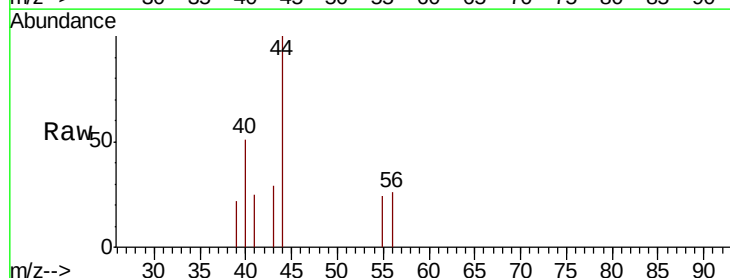
Acq: 17 May 2019 18:44

Tgt Ion: 56 Resp: 196

Ion Ratio Lower Upper

56 100

55 29.6 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN055619.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN055619.D (-477) (-)

3.63

250

200

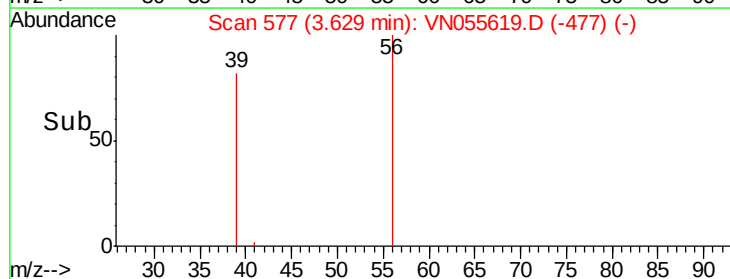
150

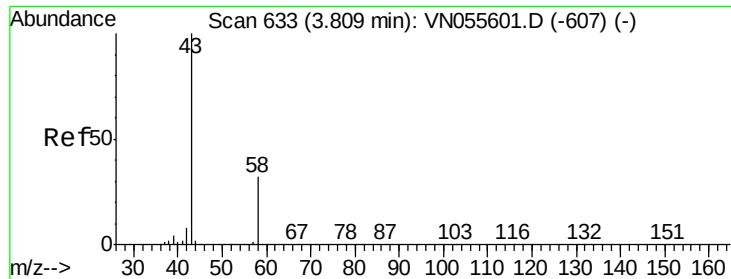
100

50

0

Time-->





#16

Acetone

Concen: 2.617 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.02 min

Lab File: VN055619.D

Acq: 17 May 2019 18:44

Instrument :

MSVOA_N

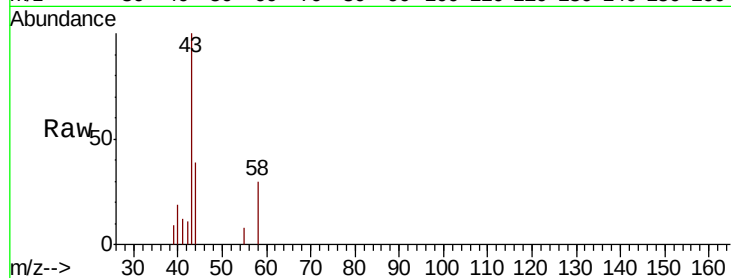
ClientSampleId :

Tot Ion: 43 Resp: 4746

Ion Ratio Lower Upper

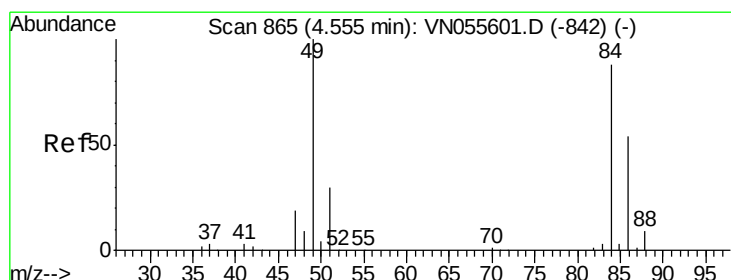
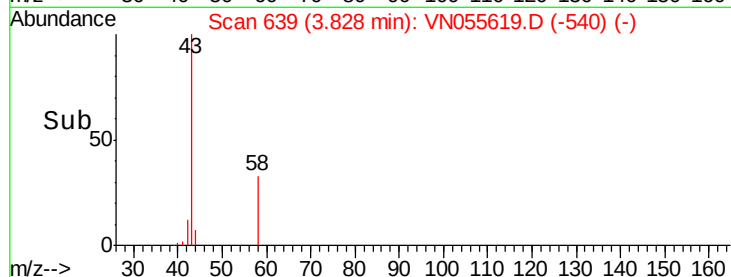
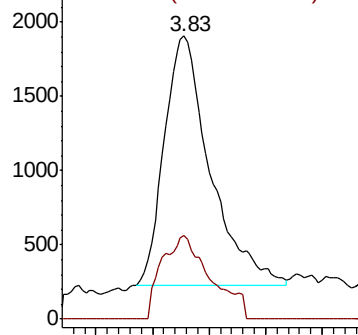
43 100

58 33.9 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#20

Methylene Chloride

Concen: 0.326 ug/l

RT: 4.56 min Scan# 867

Delta R.T. 0.01 min

Lab File: VN055619.D

Acq: 17 May 2019 18:44

Tgt Ion: 84 Resp: 1351

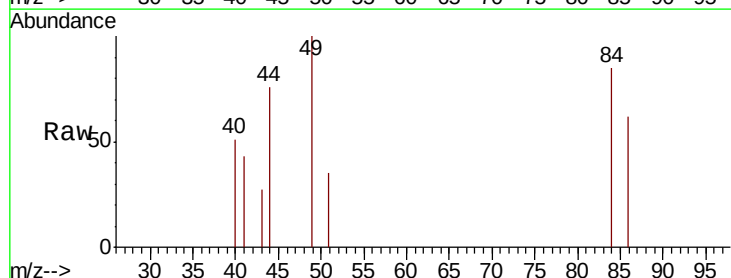
Ion Ratio Lower Upper

84 100

49 118.3 91.0 136.4

51 41.1 27.5 41.3

86 73.5 49.4 74.0

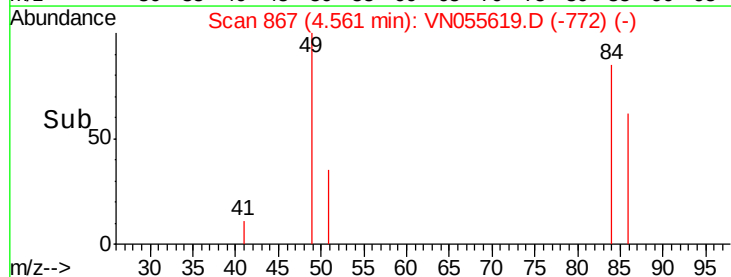
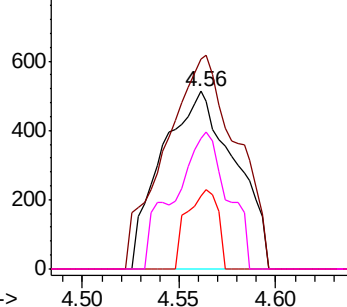


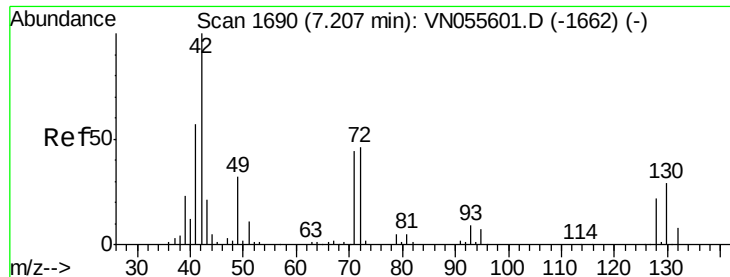
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0





#29

Tetrahydrofuran

Concen: 0.599 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.02 min

Lab File: VN055619.D

Acq: 17 May 2019 18:44

Instrument :

MSVOA_N

ClientSampled :

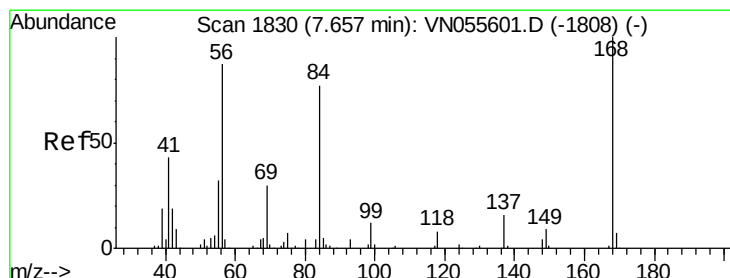
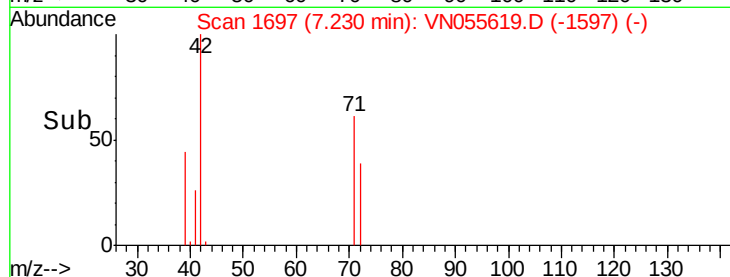
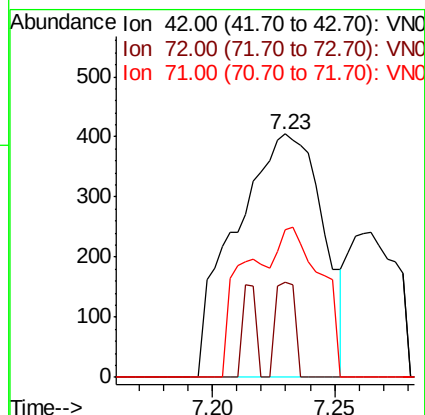
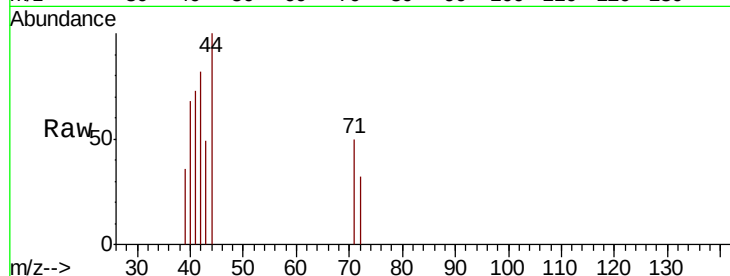
Tot Ion: 42 Resp: 1006

Ion Ratio Lower Upper

42 100

72 8.9 36.5 54.7#

71 31.2 34.9 52.3#



#31

Cyclohexane

Concen: 0.990 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN055619.D

Acq: 17 May 2019 18:44

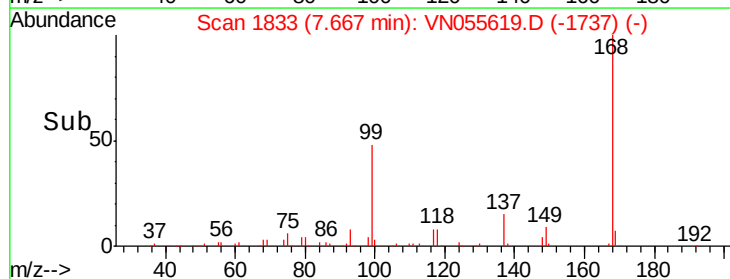
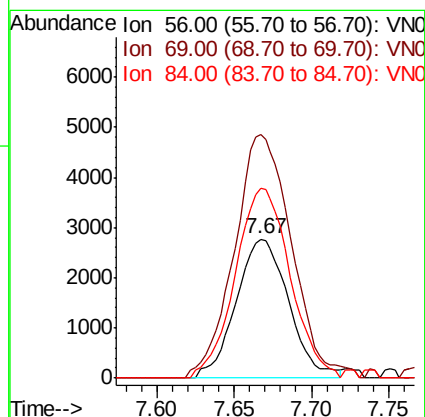
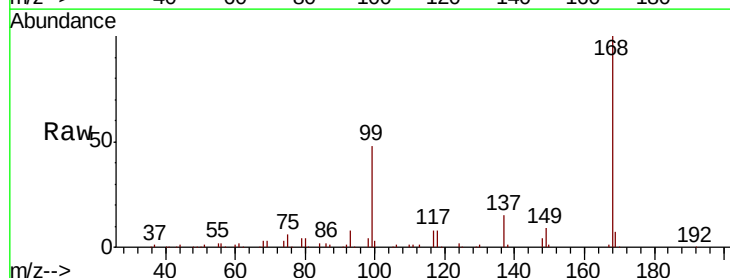
Tgt Ion: 56 Resp: 6527

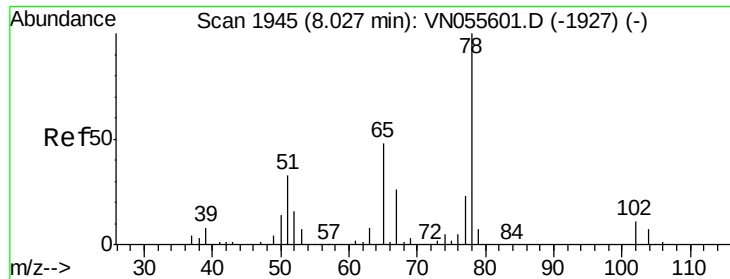
Ion Ratio Lower Upper

56 100

69 169.0 27.2 40.8#

84 136.3 71.3 106.9#

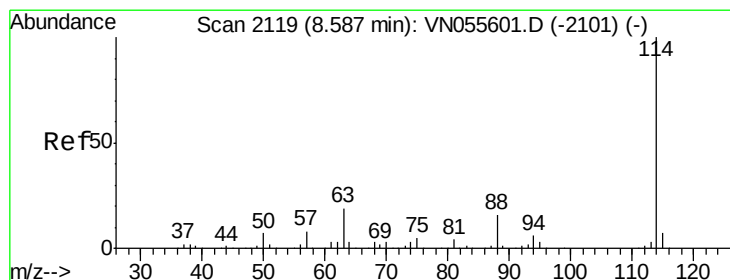
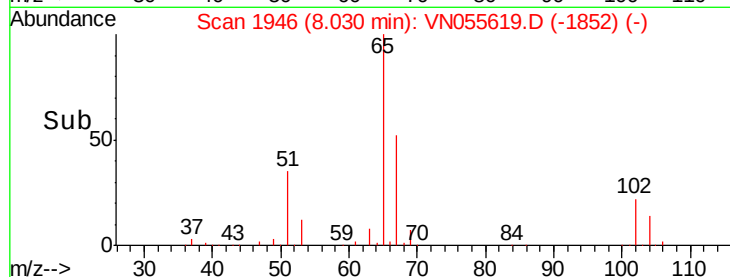
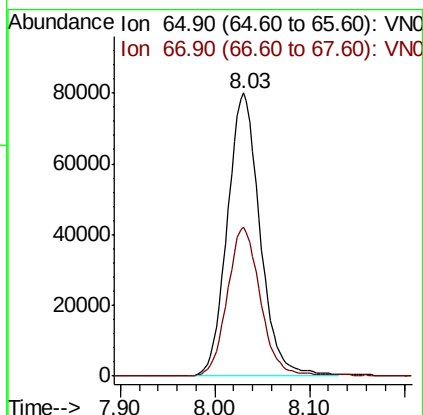
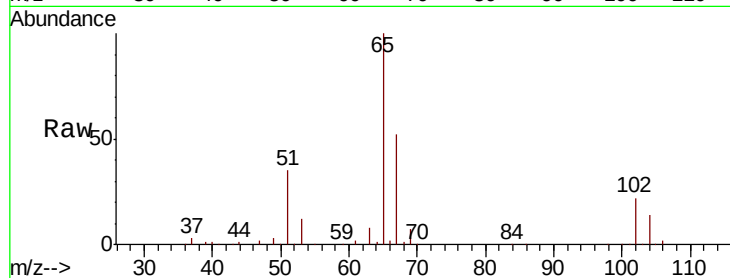




#33
 1,2-Dichloroethane-d4
 Concen: 43.195 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055619.D
 Acq: 17 May 2019 18:44

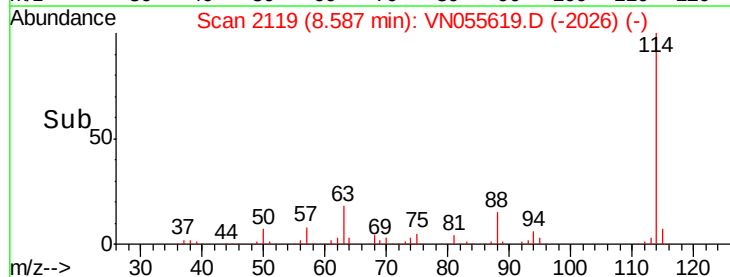
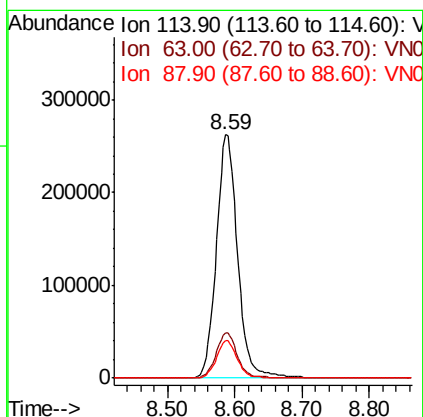
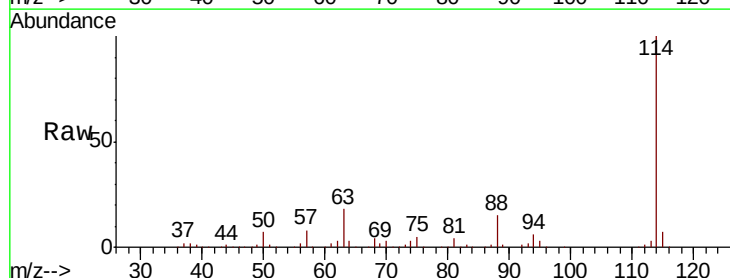
Instrument :
 MSVOA_N
 ClientSampleId :

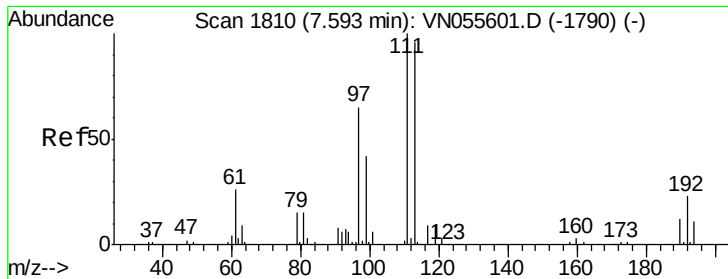
Tot Ion: 65 Resp: 191950
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055619.D
 Acq: 17 May 2019 18:44

Tgt Ion: 114 Resp: 577922
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 38.2
 88 15.4 0.0 31.0

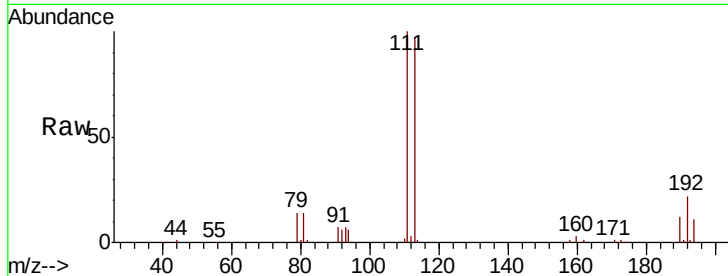




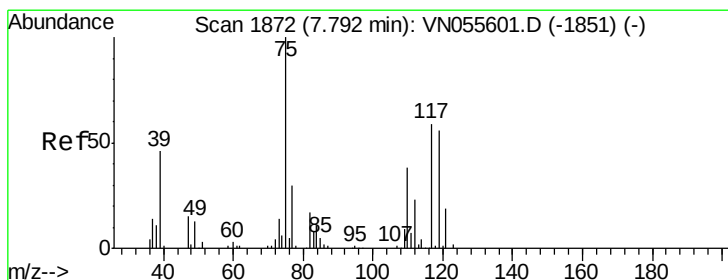
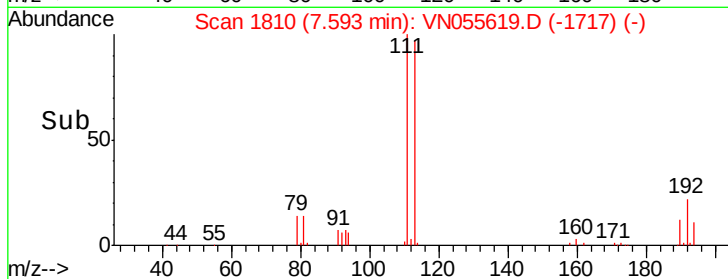
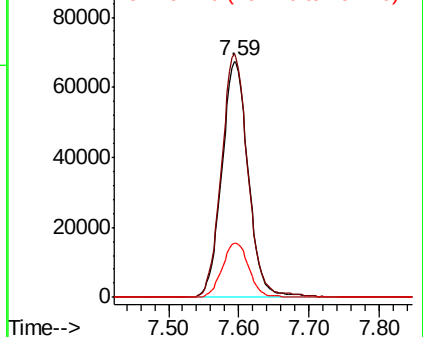
#35
 Dibromofluoromethane
 Concen: 48.137 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN055619.D
 Acq: 17 May 2019 18:44

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.5	123.7
192	23.2	18.7	28.1

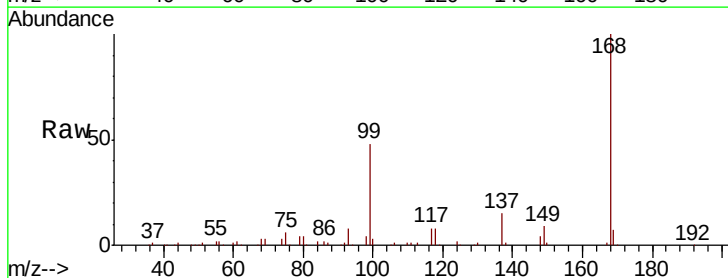


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

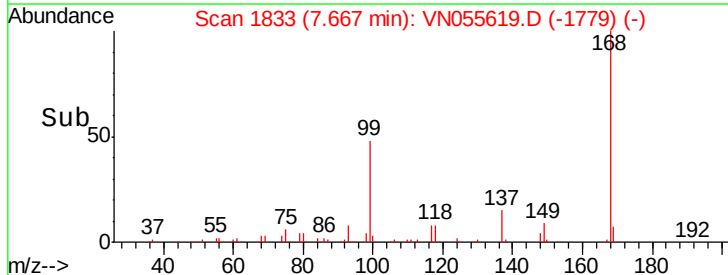
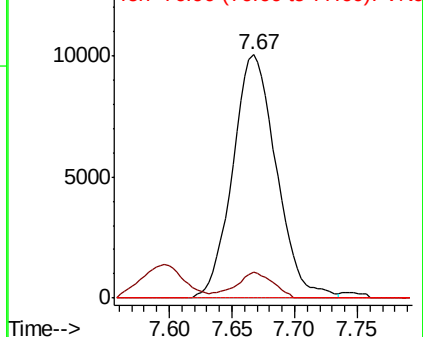


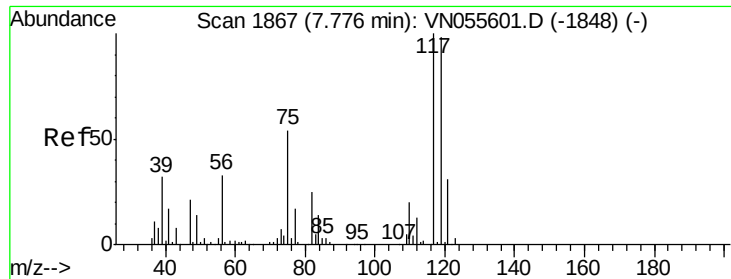
#36
 1,1-Dichloropropene
 Concen: 4.726 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN055619.D
 Acq: 17 May 2019 18:44

Tgt 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): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.178 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055619.D

Acq: 17 May 2019 18:44

Instrument :

MSVOA_N

ClientSampleId :

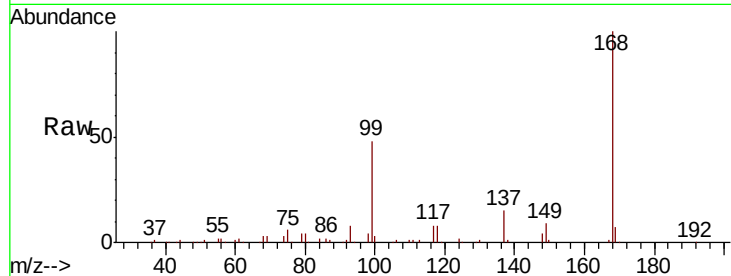
Tot Ion:117 Resp: 34015

Ion Ratio Lower Upper

117 100

119 5.5 77.8 116.8#

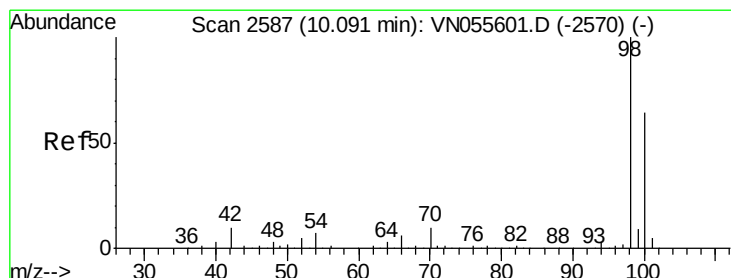
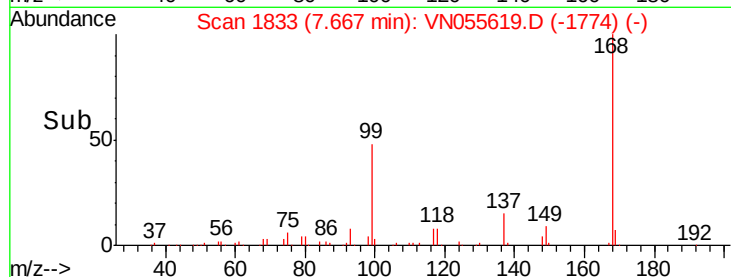
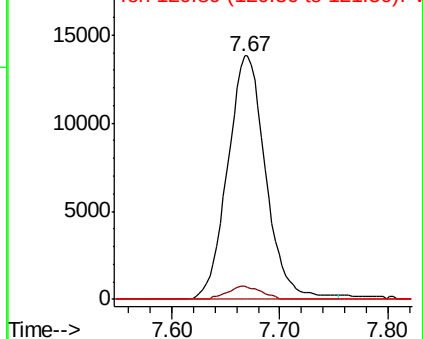
121 0.0 24.6 37.0#



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: 47.971 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055619.D

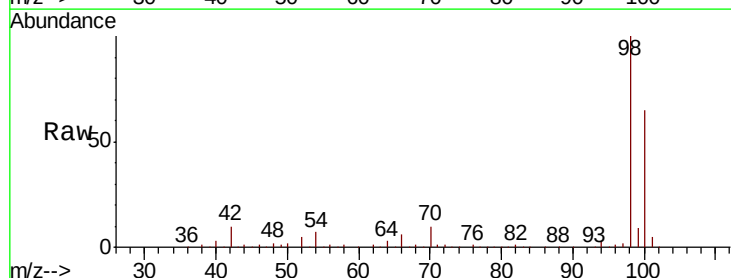
Acq: 17 May 2019 18:44

Tgt Ion: 98 Resp: 665909

Ion Ratio Lower Upper

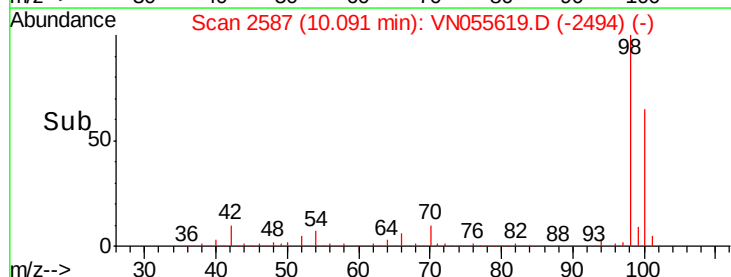
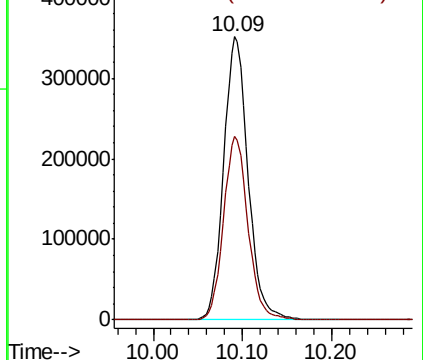
98 100

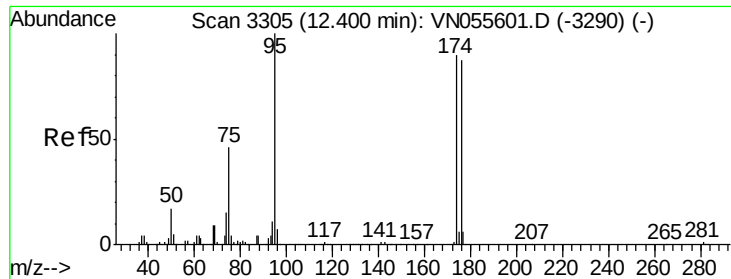
100 64.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

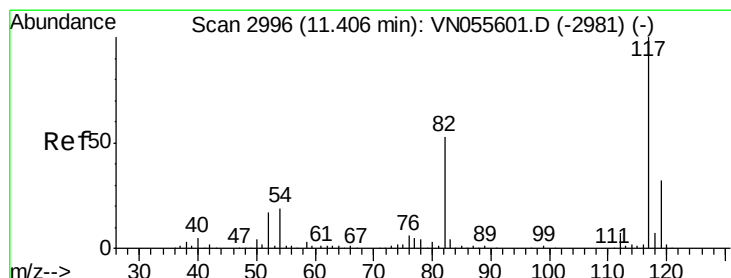
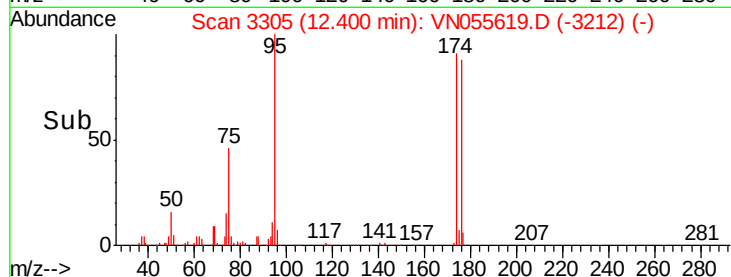
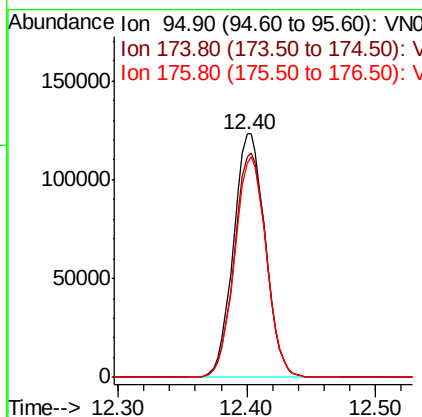
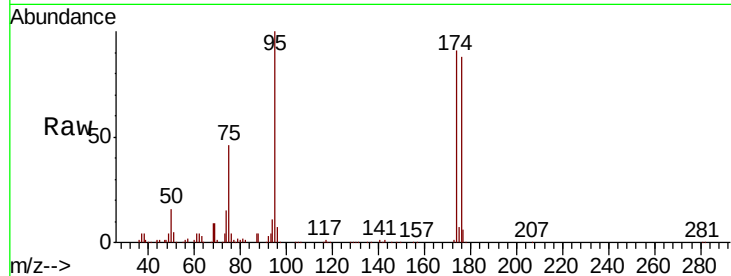




#62
4-Bromofluorobenzene
Concen: 43.965 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055619.D
Acq: 17 May 2019 18:44

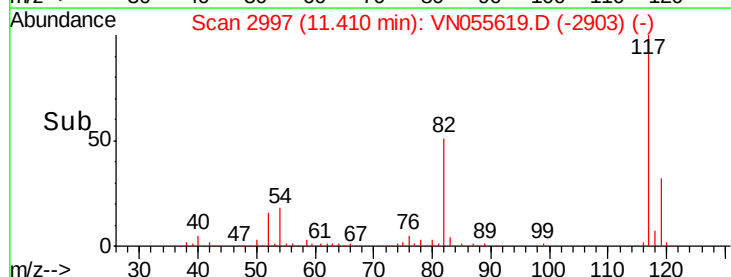
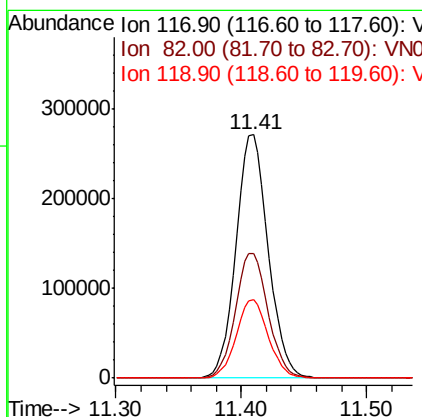
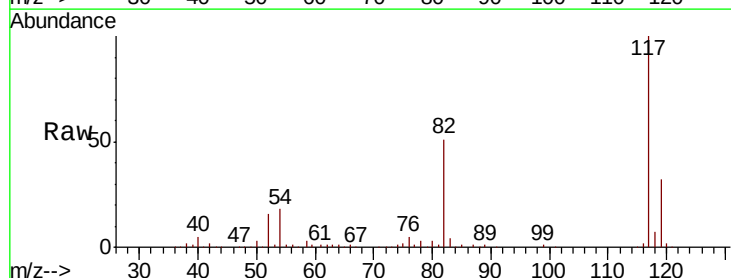
Instrument :
MSVOA_N
ClientSampleId :

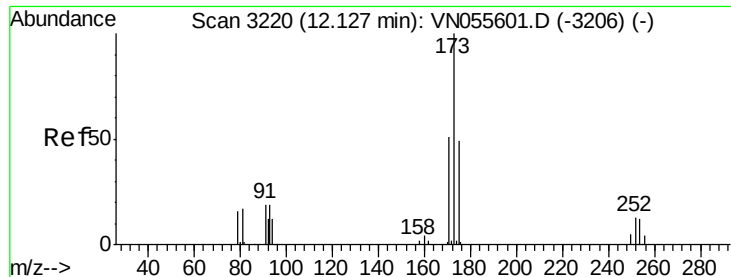
Tot Ion	Ratio	Lower	Upper
95	100		
174	92.2	0.0	180.6
176	90.0	0.0	177.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN055619.D
Acq: 17 May 2019 18:44

Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.9	42.3	63.5
119	32.1	25.4	38.2





#71

Bromoform

Concen: 0.420 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055619.D

Acq: 17 May 2019 18:44

Instrument :

MSVOA_N

ClientSampled :

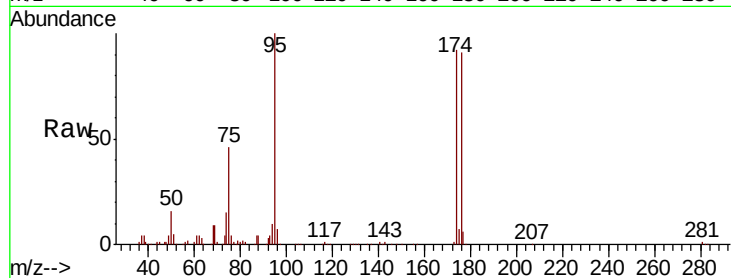
Tot Ion:173 Resp: 1397

Ion Ratio Lower Upper

173 100

175 886.8 24.3 72.9#

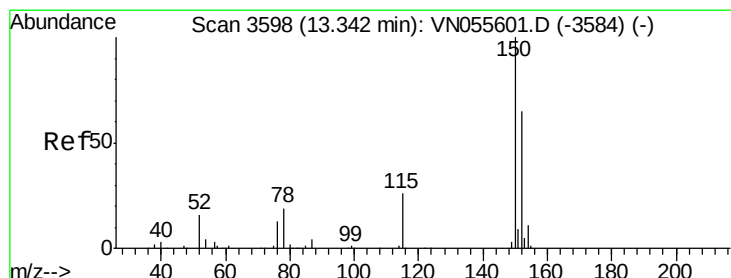
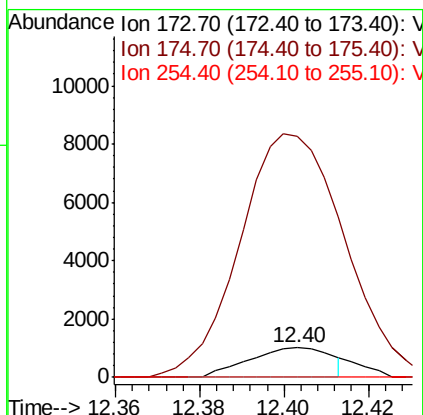
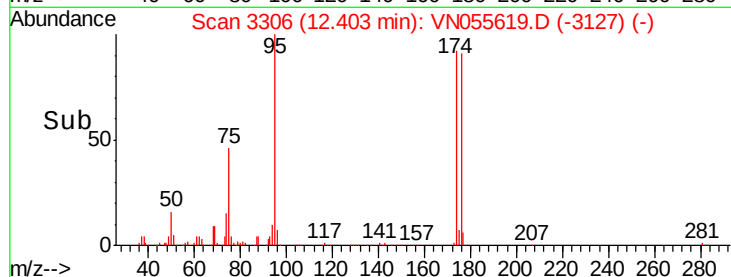
254 0.0 0.1 0.1#



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: VN055619.D

Acq: 17 May 2019 18:44

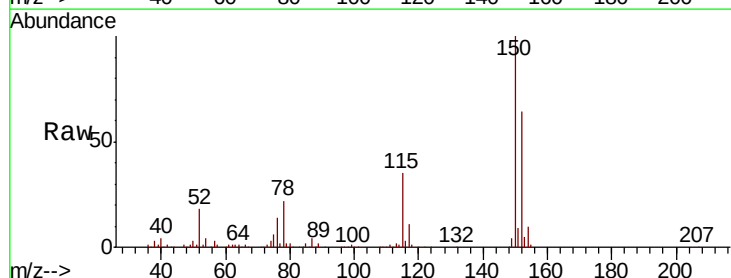
Tgt Ion:152 Resp: 186847

Ion Ratio Lower Upper

152 100

115 55.7 28.1 84.2

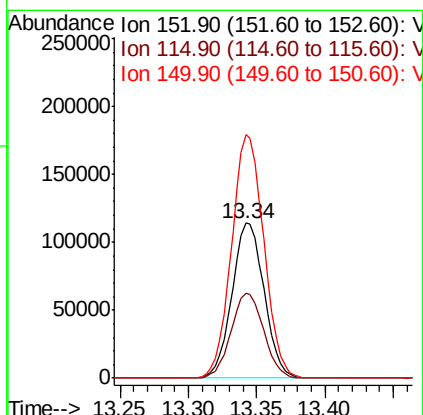
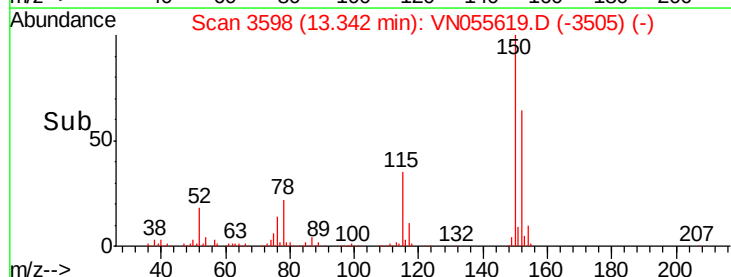
150 157.6 0.0 348.0

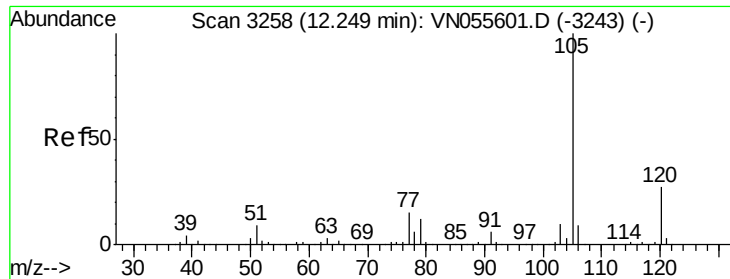


Abundance Ion 151.90 (151.60 to 152.60): V

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: VN055619.D

Acq: 17 May 2019 18:44

Instrument :

MSVOA_N

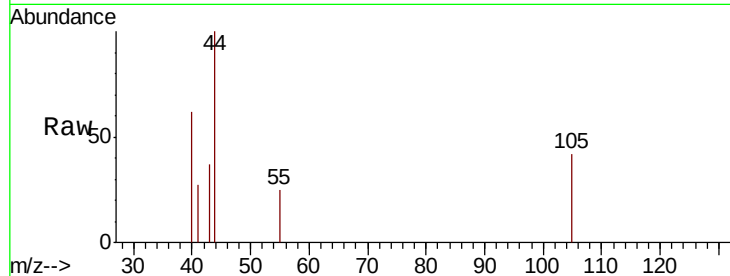
ClientSampleId :

Tot Ion:105 Resp: 297

Ion Ratio Lower Upper

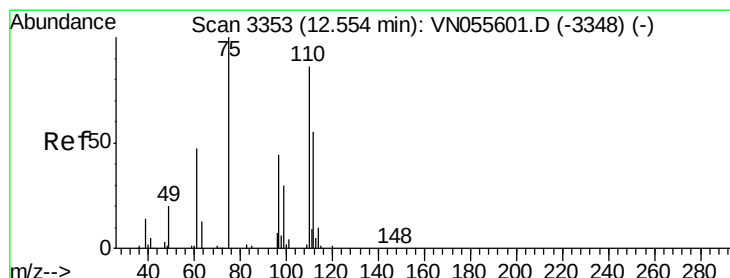
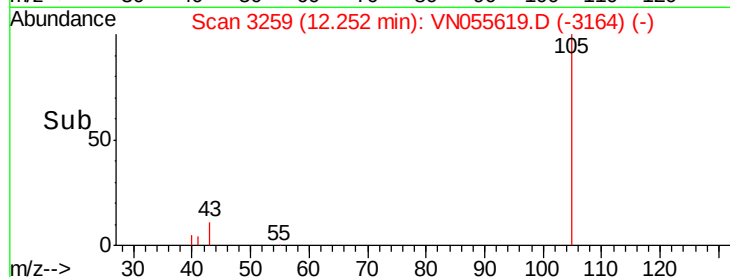
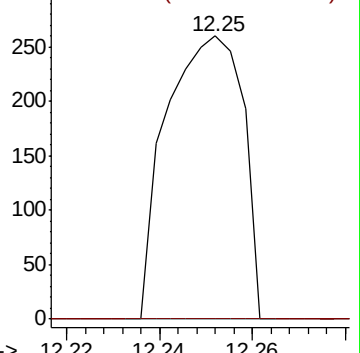
105 100

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: 25.698 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN055619.D

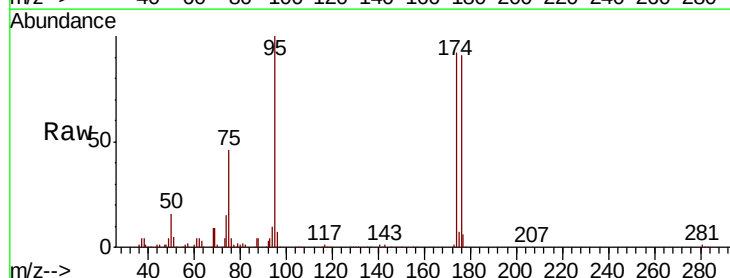
Acq: 17 May 2019 18:44

Tgt Ion: 75 Resp: 97976

Ion Ratio Lower Upper

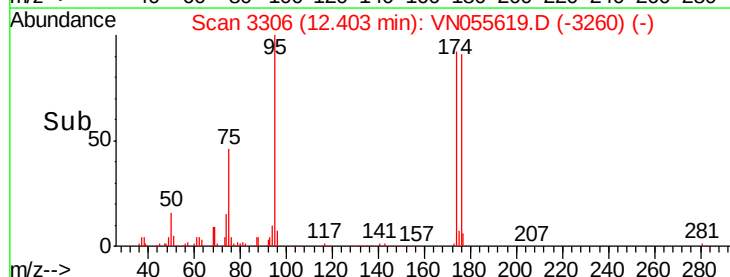
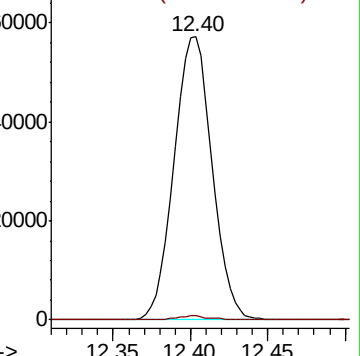
75 100

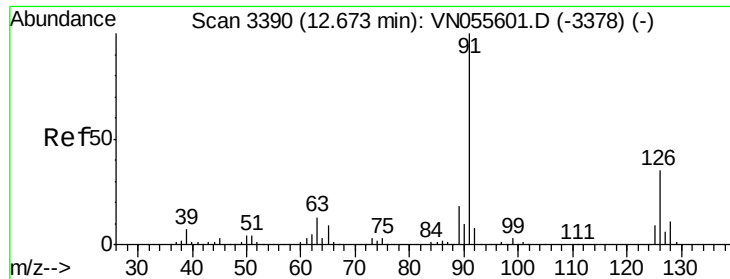
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055619.D

Acq: 17 May 2019 18:44

Instrument :

MSVOA_N

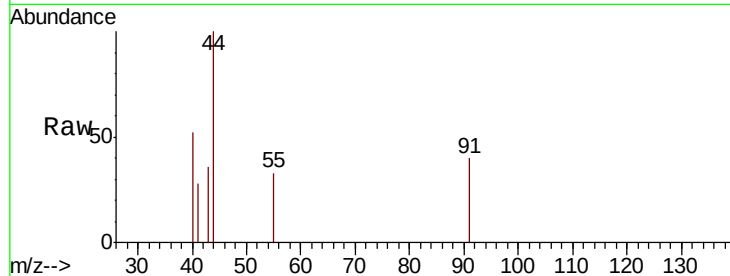
ClientSampled :

Tot Ion: 91 Resp: 386

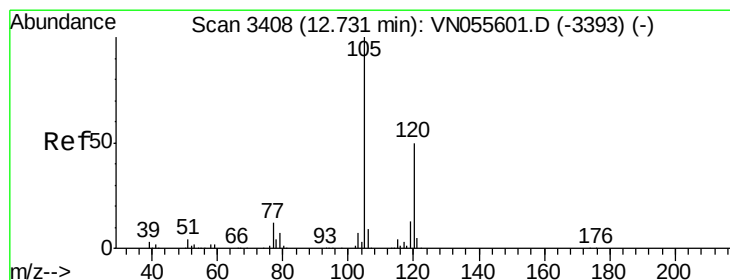
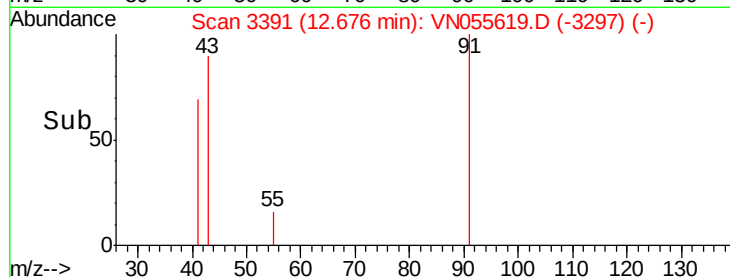
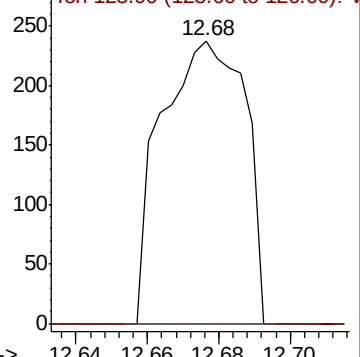
Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055619.D (-3390) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN055619.D

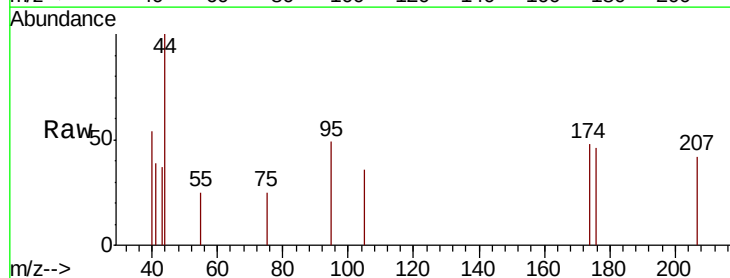
Acq: 17 May 2019 18:44

Tgt Ion: 105 Resp: 308

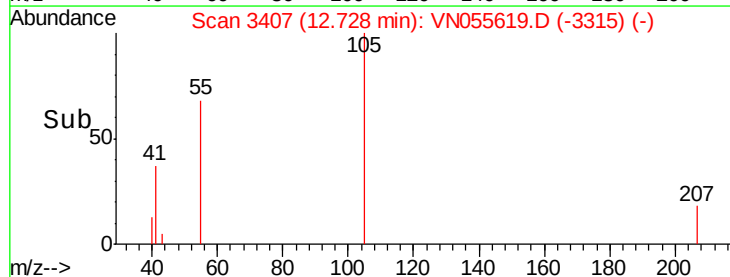
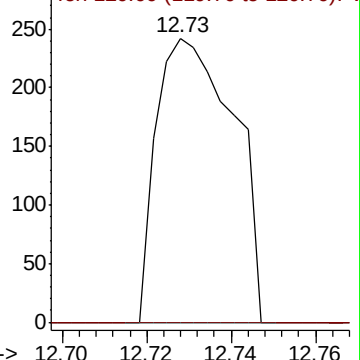
Ion Ratio Lower Upper

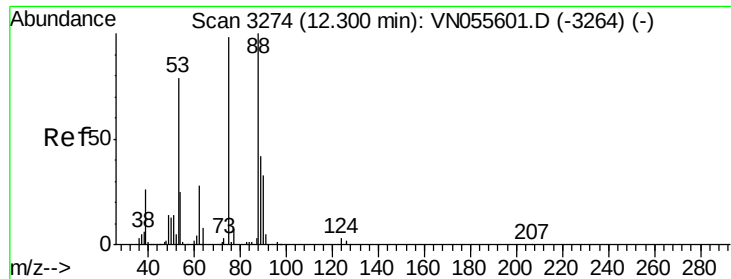
105 100

120 0.0 24.6 74.0#



Abundance Ion 105.00 (104.70 to 105.70): VN055619.D (-3408) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 66.058 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN055619.D

Acq: 17 May 2019 18:44

Instrument :

MSVOA_N

ClientSampleId :

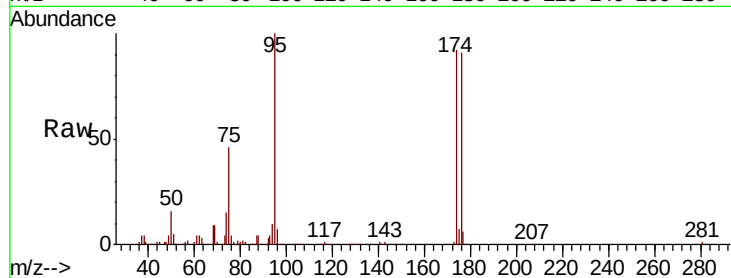
Tot Ion: 75 Resp: 97976

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

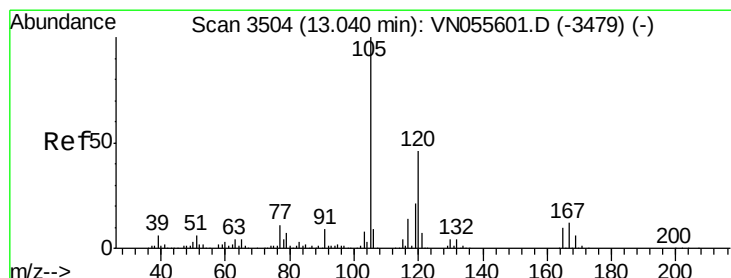
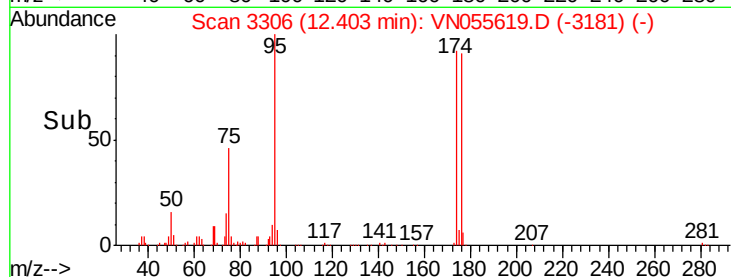
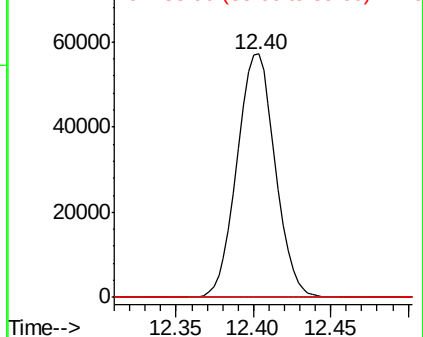
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN055619.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN055619.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN055619.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN055619.D

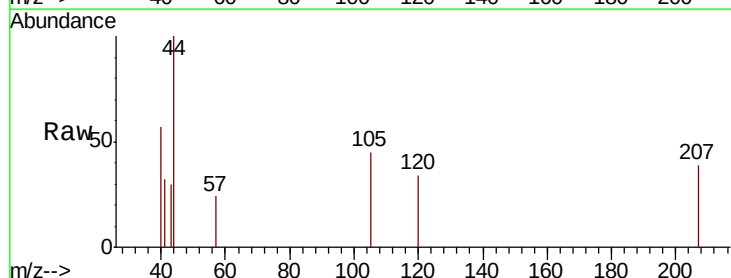
Acq: 17 May 2019 18:44

Tgt Ion: 105 Resp: 412

Ion Ratio Lower Upper

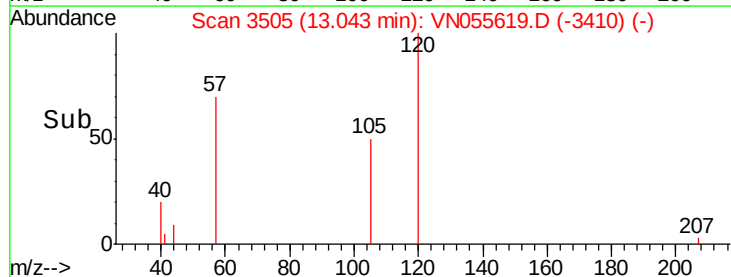
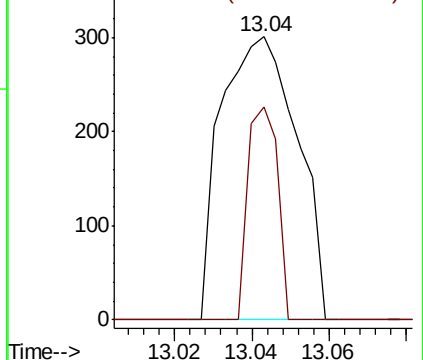
105 100

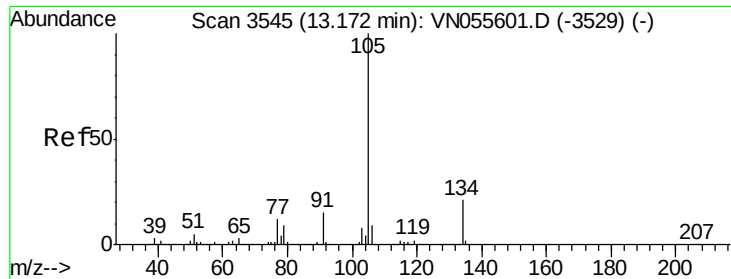
120 29.4 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): VN055619.D (-3410) (-)

Ion 120.00 (119.70 to 120.70): VN055619.D (-3410) (-)





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN055619.D

Acq: 17 May 2019 18:44

Instrument :

MSVOA_N

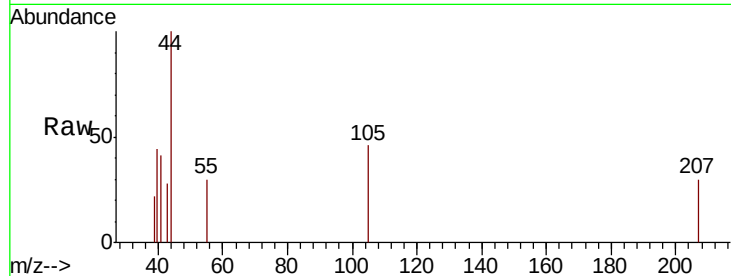
ClientSampled :

Tot Ion:105 Resp: 440

Ion Ratio Lower Upper

105 100

134 0.0 10.3 30.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

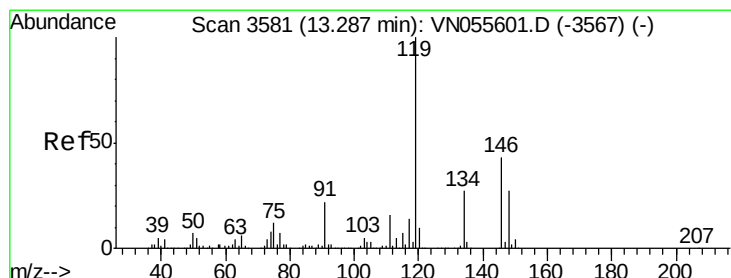
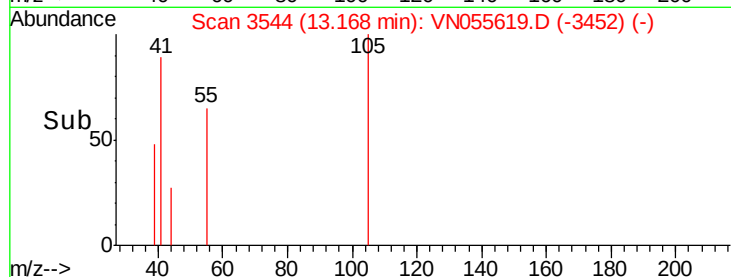
300

200

100

0

Time-->



#86

p-Isopropyltoluene

Concen: Below Cal

RT: 13.29 min Scan# 3583

Delta R.T. 0.01 min

Lab File: VN055619.D

Acq: 17 May 2019 18:44

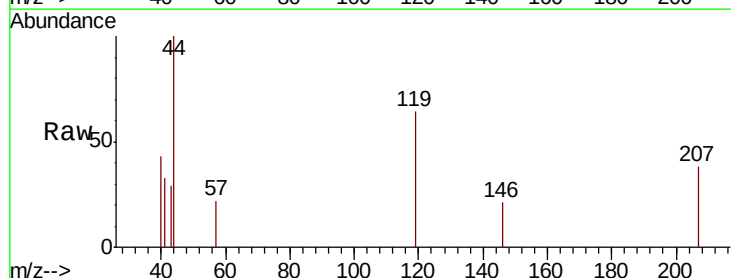
Tgt Ion:119 Resp: 601

Ion Ratio Lower Upper

119 100

134 0.0 13.4 40.2#

91 0.0 11.0 33.0#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

600

500

400

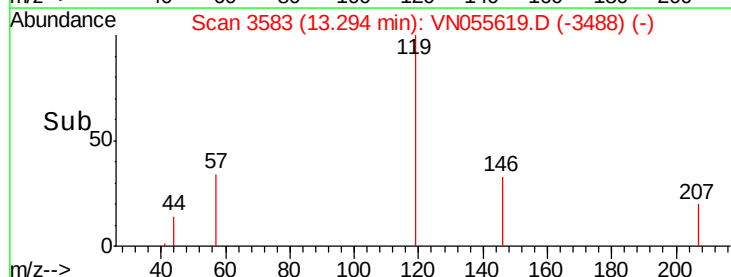
300

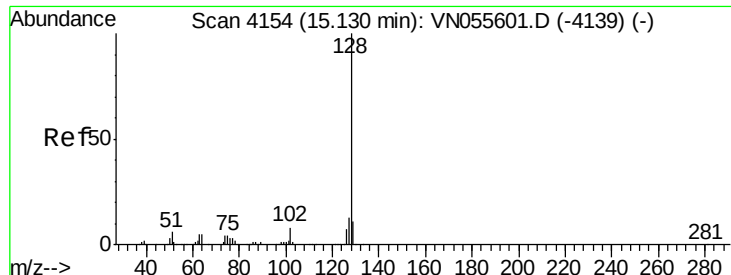
200

100

0

Time-->

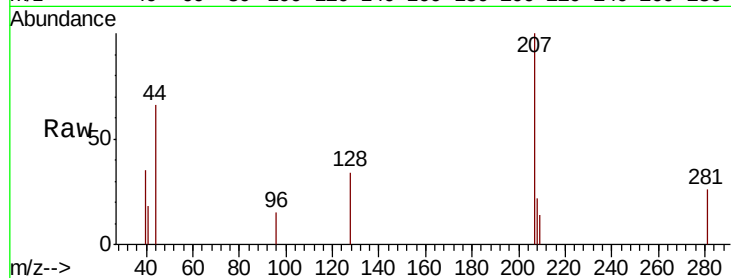




#95
Naphthalene
Concen: 1.836 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN055619.D
Acq: 17 May 2019 18:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 725
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

