

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055624.D
 Acq On : 17 May 2019 20:42
 Operator : JC/SP
 Sample : K2902-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 03:12:17 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

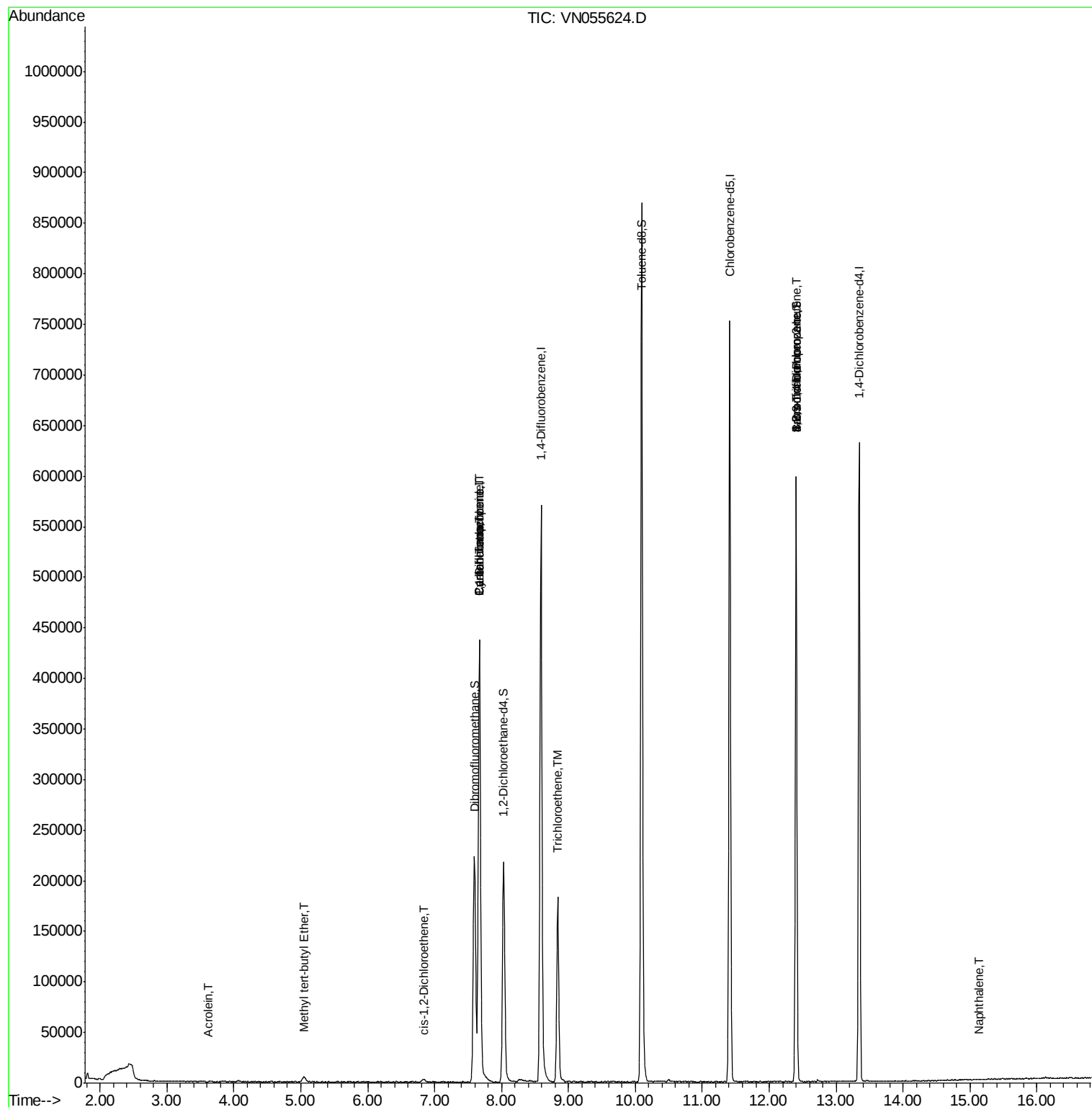
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	412511	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	577881	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	482712	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	185860	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	191835	42.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.84%	
35) Dibromofluoromethane	7.59	113	177409	48.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.66%	
50) Toluene-d8	10.09	98	668575	48.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.34%	
62) 4-Bromofluorobenzene	12.40	95	210472	43.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.82%	
Target Compounds						
					Qvalue	
13) Acrolein	3.62	56	63	1.508	ug/l #	1
19) Methyl tert-butyl Ether	5.04	73	8586	0.689	ug/l	95
27) cis-1,2-Dichloroethene	6.83	96	1670	0.357	ug/l	75
31) Cyclohexane	7.67	56	6511	0.971	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	25053	4.863	ug/l #	49
38) Carbon Tetrachloride	7.67	117	34042	6.183	ug/l #	16
44) Trichloroethene	8.84	130	75705	17.704	ug/l	98
71) Bromoform	12.41	173	1338	0.402	ug/l #	1
73) Isopropylbenzene	12.25	105	30	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	96940	25.561	ug/l #	100
79) 2-Chlorotoluene	12.67	91	59	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	96940	65.707	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.04	105	214	Below Cal		73
85) sec-Butylbenzene	13.17	105	247	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	329	Below Cal	#	51
95) Naphthalene	15.14	128	237	1.788	ug/l #	69

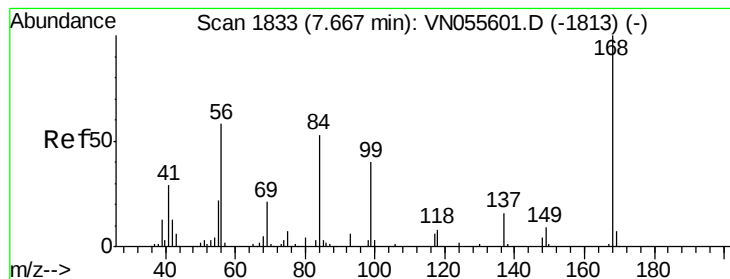
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
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: VN055624.D

Acq: 17 May 2019 20:42

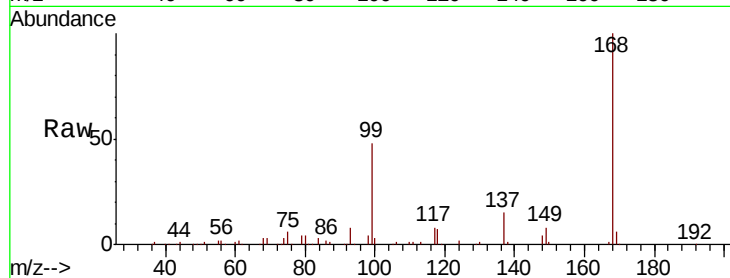
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 412511

Ion Ratio Lower Upper

168 100

99 48.3 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

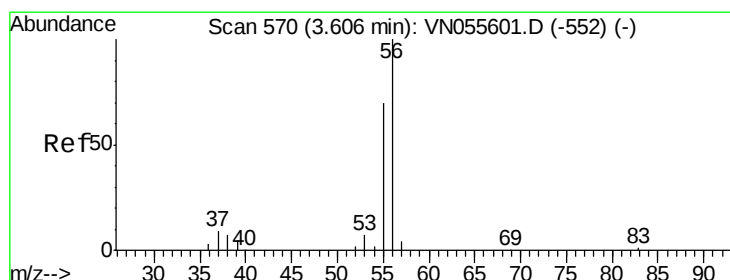
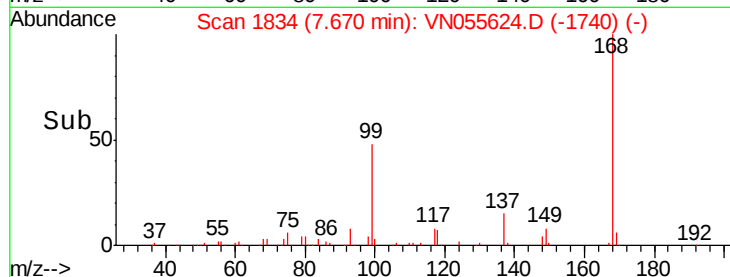
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#13

Acrolein

Concen: 1.508 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN055624.D

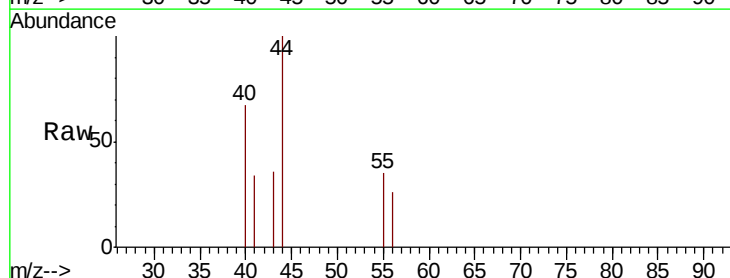
Acq: 17 May 2019 20:42

Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

56 100

55 857.1 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

300

250

200

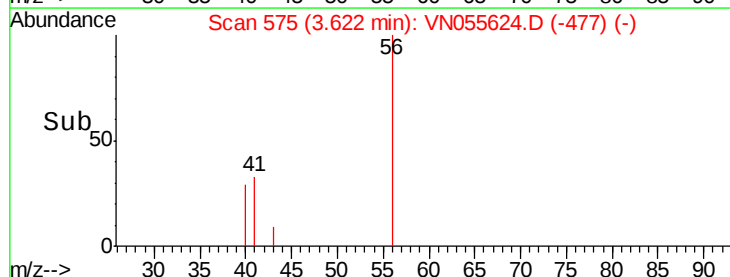
150

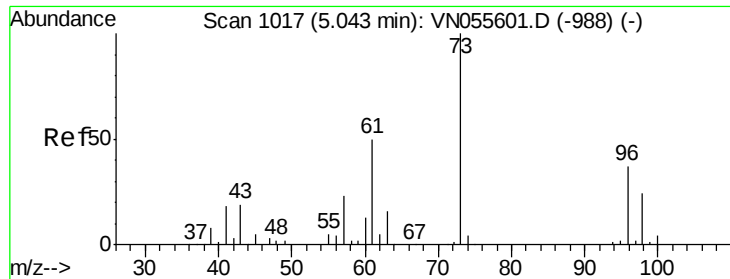
100

50

0

Time--> 3.61 3.62 3.63

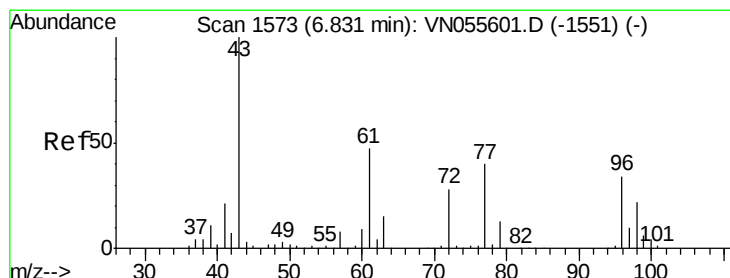
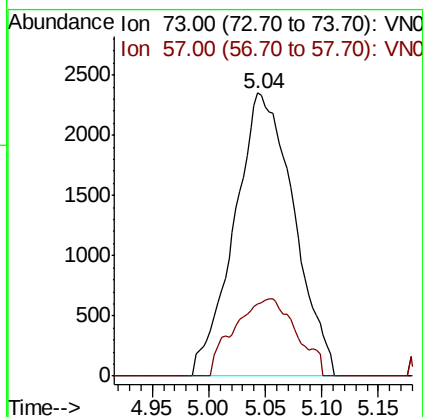
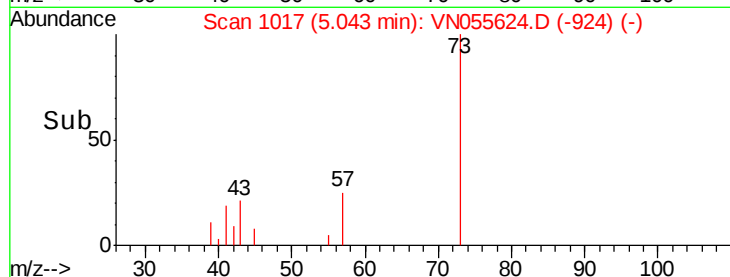
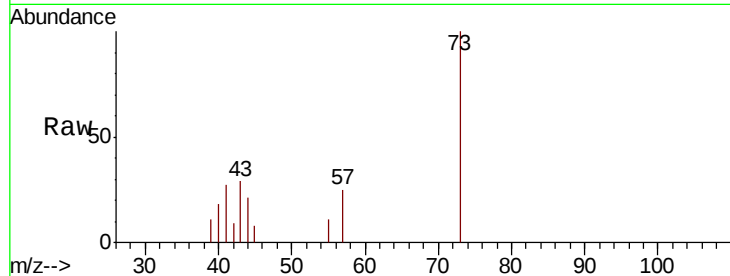




#19
Methvl tert-butvl Ether
Concen: 0.689 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN055624.D
Acq: 17 May 2019 20:42

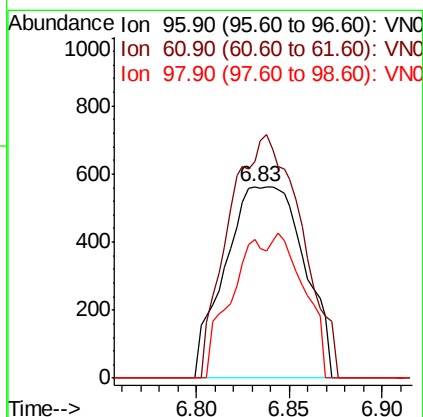
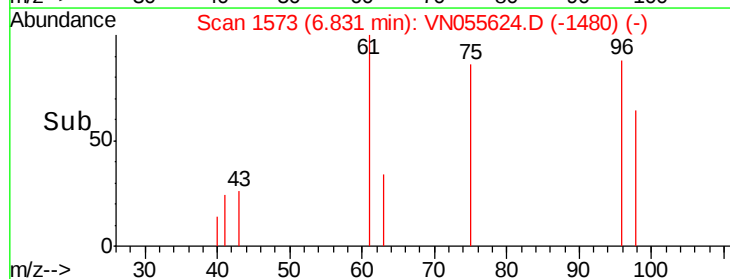
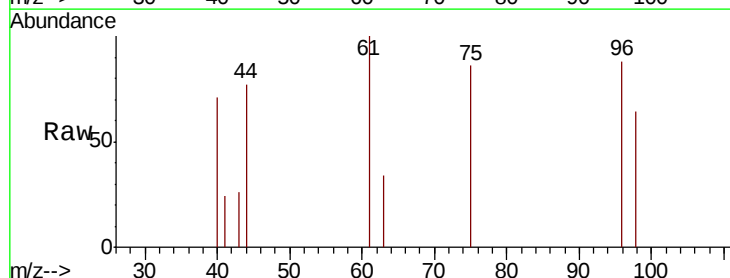
Instrument :
MSVOA_N
ClientSampled :

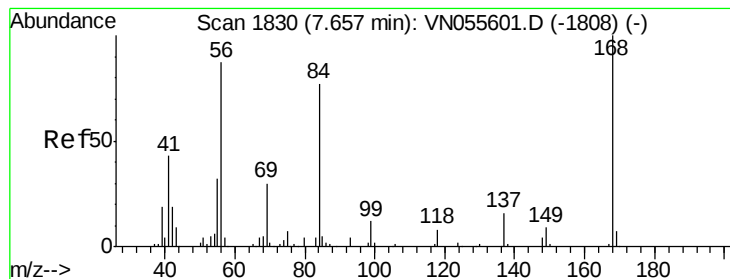
Tot Ion: 73 Resp: 8586
Ion Ratio Lower Upper
73 100
57 25.3 18.2 27.2



#27
cis-1,2-Dichloroethene
Concen: 0.357 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN055624.D
Acq: 17 May 2019 20:42

Tgt Ion: 96 Resp: 1670
Ion Ratio Lower Upper
96 100
61 117.0 0.0 279.0
98 34.0 0.0 131.6





#31

Cyclohexane

Concen: 0.971 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN055624.D

Acq: 17 May 2019 20:42

Instrument :
MSVOA_N
ClientSampled :

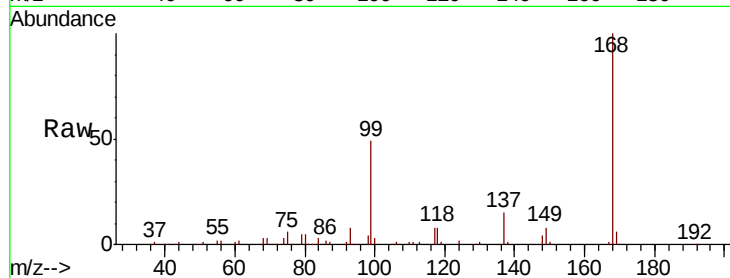
Tot Ion: 56 Resp: 6511

Ion Ratio Lower Upper

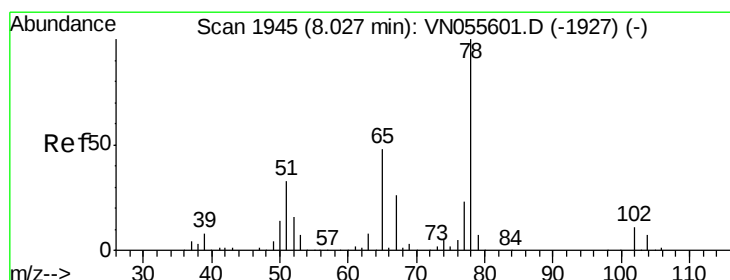
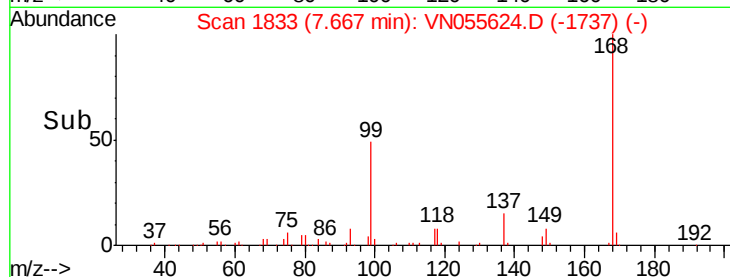
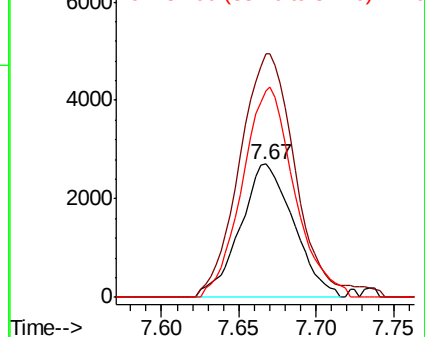
56 100

69 182.9 27.2 40.8#

84 155.4 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: 42.423 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN055624.D

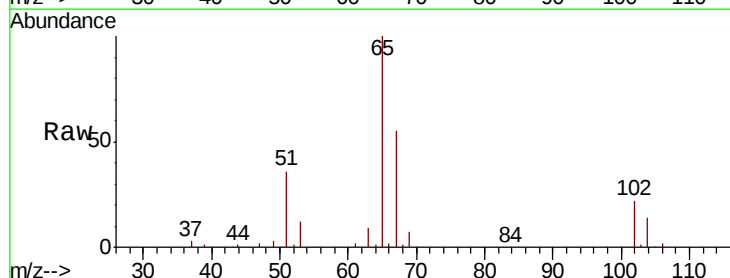
Acq: 17 May 2019 20:42

Tgt Ion: 65 Resp: 191835

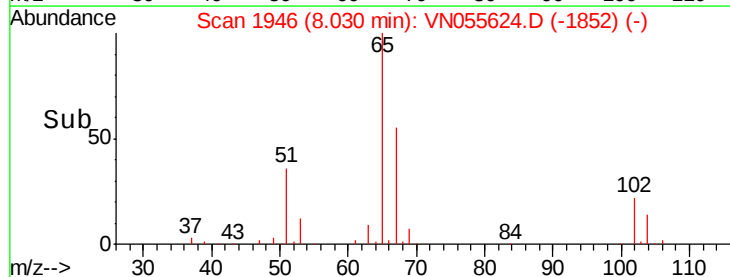
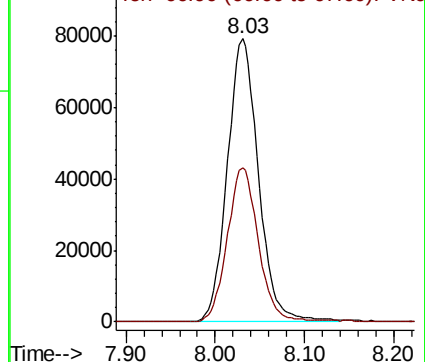
Ion Ratio Lower Upper

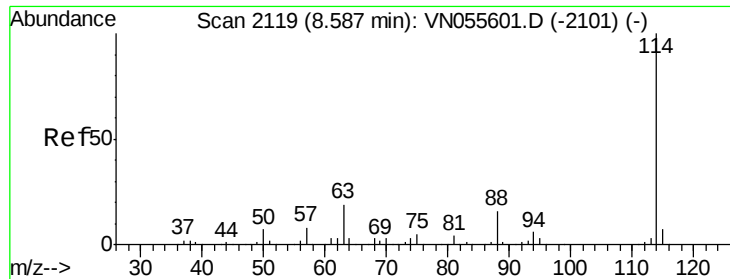
65 100

67 54.3 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

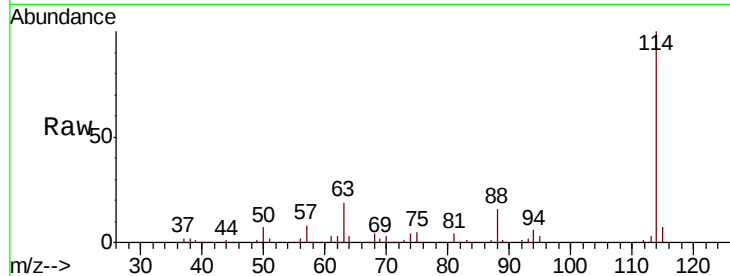




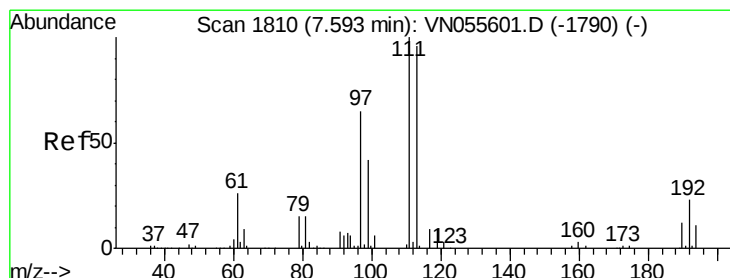
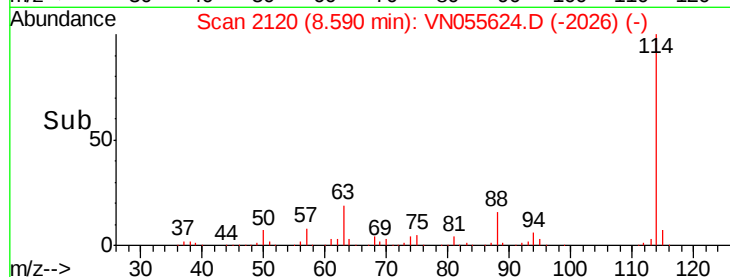
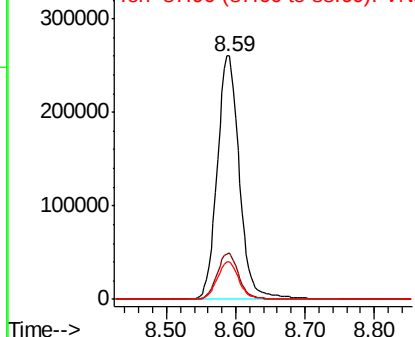
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN055624.D
 Acq: 17 May 2019 20:42

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 577881
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.2
 88 15.6 0.0 31.0

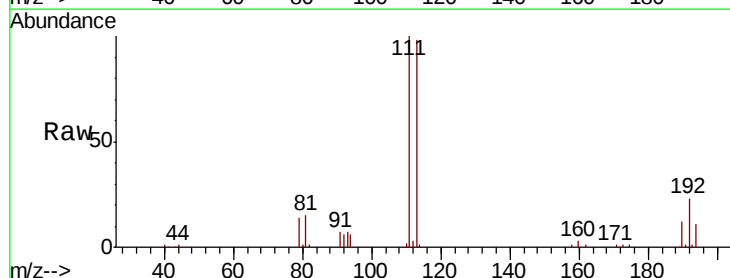


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

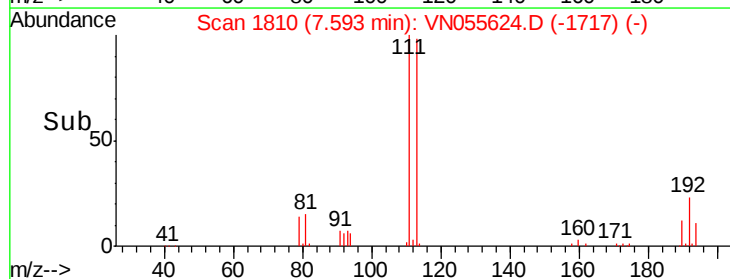
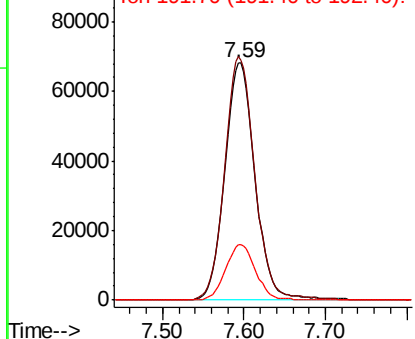


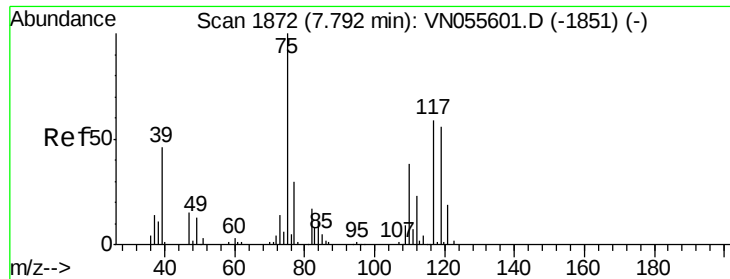
#35
 Dibromofluoromethane
 Concen: 48.328 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055624.D
 Acq: 17 May 2019 20:42

Tgt Ion:113 Resp: 177409
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.5 123.7
 192 23.0 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

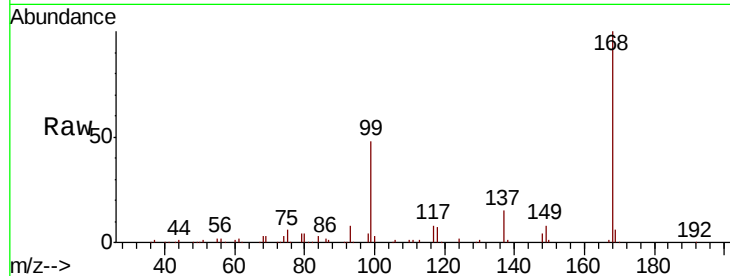




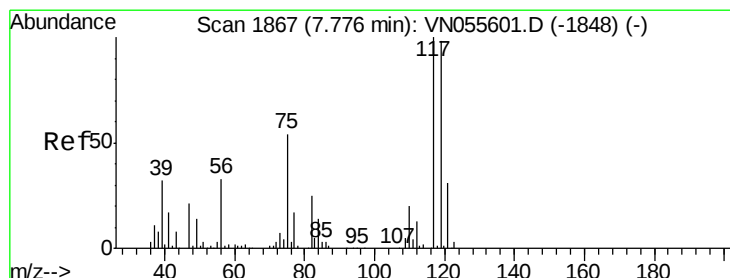
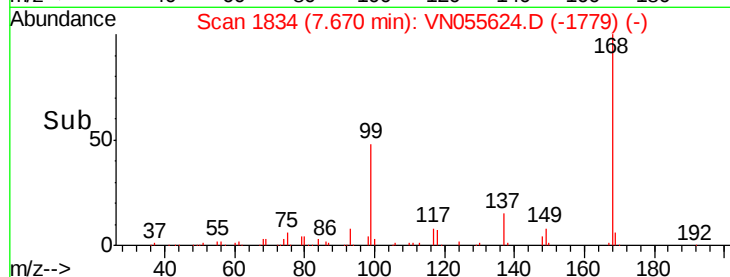
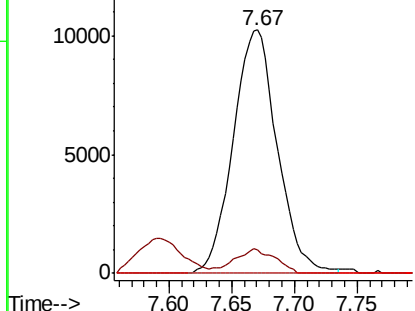
#36
 1,1-Dichloropropene
 Concen: 4.863 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN055624.D
 Acq: 17 May 2019 20:42

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.6	55.6#
77	0.0	24.9	37.3#

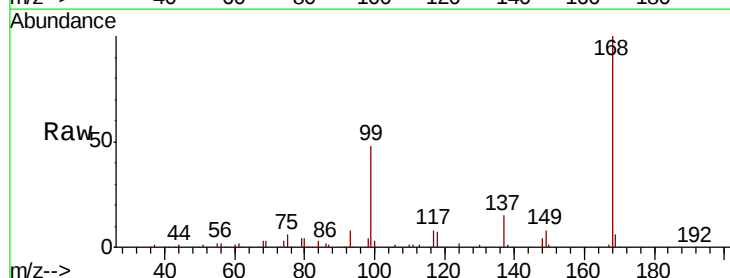


Abundance Ion 74.90 (74.60 to 75.60): VN055601.D (-1851) (-)
 Ion 109.90 (109.60 to 110.60): VN055601.D (-1851) (-)
 Ion 76.90 (76.60 to 77.60): VN055601.D (-1851) (-)

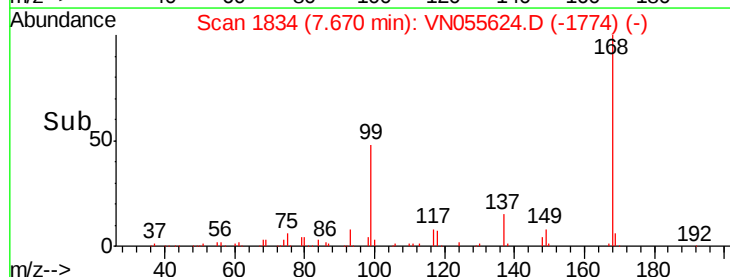
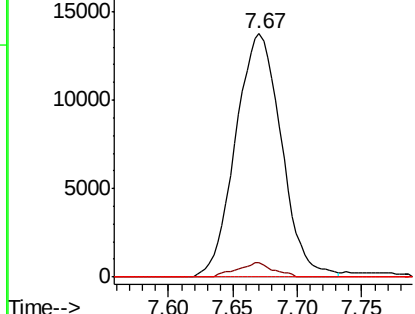


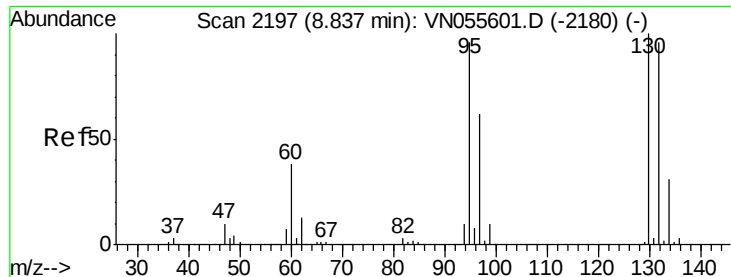
#38
 Carbon Tetrachloride
 Concen: 6.183 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.11 min
 Lab File: VN055624.D
 Acq: 17 May 2019 20:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	77.8	116.8#
121	0.0	24.6	37.0#



Abundance Ion 116.80 (116.50 to 117.50): VN055601.D (-1848) (-)
 Ion 118.80 (118.50 to 119.50): VN055601.D (-1848) (-)
 Ion 120.80 (120.50 to 121.50): VN055601.D (-1848) (-)





#44

Trichloroethene

Concen: 17.704 ug/l

RT: 8.84 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VN055624.D

Acq: 17 May 2019 20:42

Instrument :

MSVOA_N

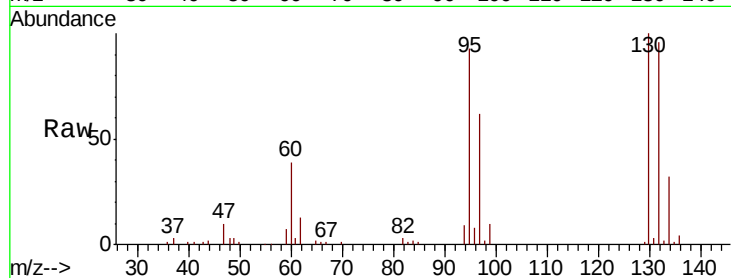
ClientSampleId :

Tot Ion:130 Resp: 75705

Ion Ratio Lower Upper

130 100

95 93.1 0.0 191.0



Abundance Ion 129.80 (129.50 to 130.50): VN055624.D (-2198) (-)

Ion 94.90 (94.60 to 95.60): VN055624.D (-2198) (-)

8.84

40000

30000

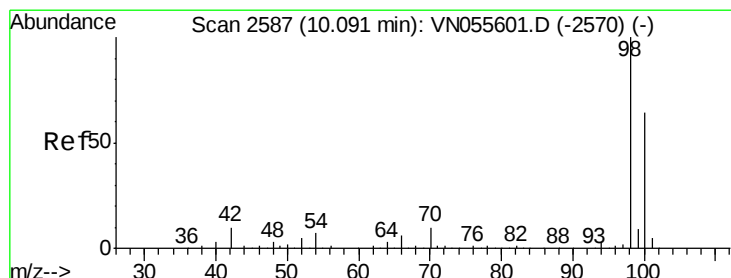
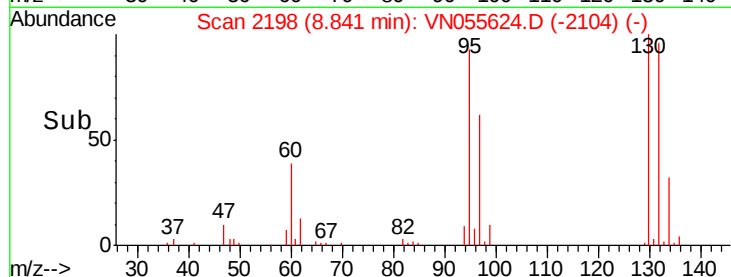
20000

10000

0

8.80 8.90 9.00

Time-->



#50

Toluene-d8

Concen: 48.167 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055624.D

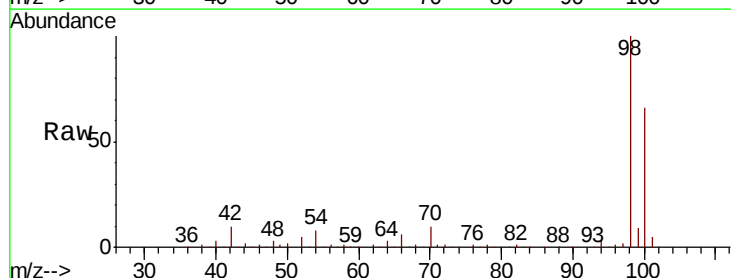
Acq: 17 May 2019 20:42

Tgt Ion: 98 Resp: 668575

Ion Ratio Lower Upper

98 100

100 64.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055624.D (-2587) (-)

Ion 100.00 (99.70 to 100.70): VN055624.D (-2587) (-)

10.09

400000

300000

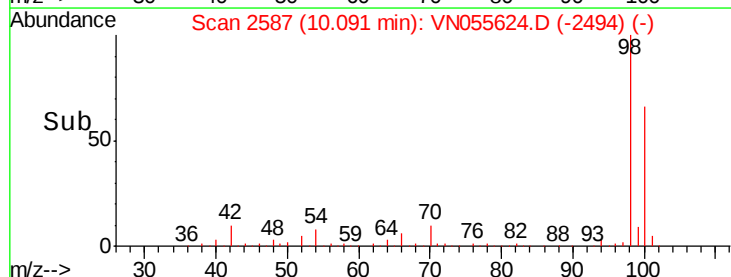
200000

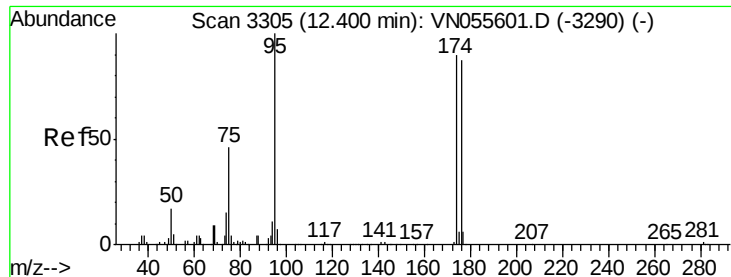
100000

0

10.00 10.10 10.20

Time-->





#62

4-Bromofluorobenzene

Concen: 43.911 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055624.D

Acq: 17 May 2019 20:42

Instrument :

MSVOA_N

ClientSampleId :

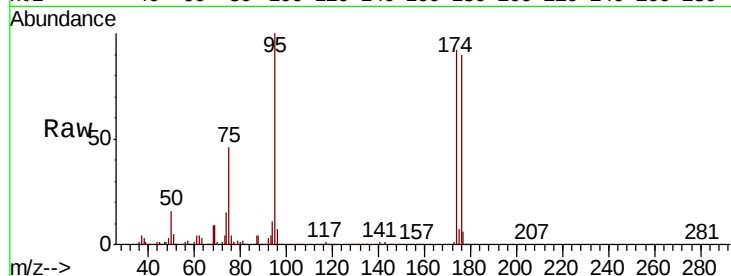
Tot Ion: 95 Resp: 210472

Ion Ratio Lower Upper

95 100

174 91.5 0.0 180.6

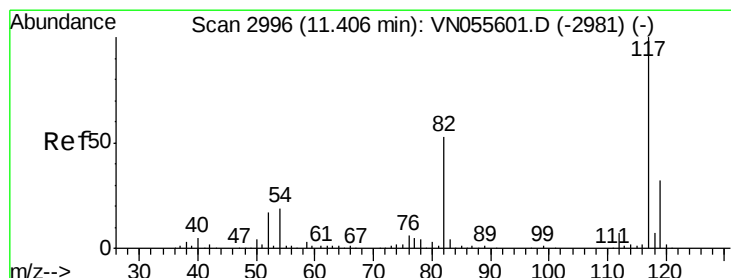
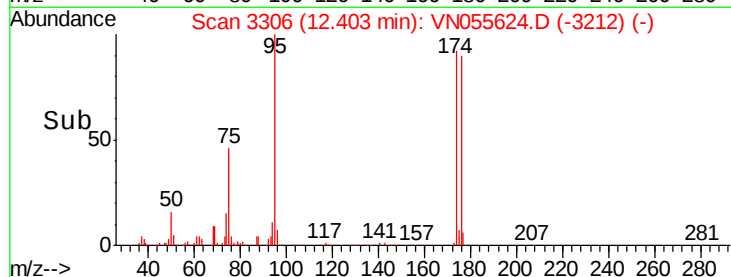
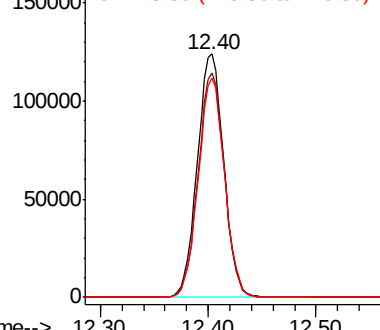
176 89.7 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN055601.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN055601.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN055601.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN055624.D

Acq: 17 May 2019 20:42

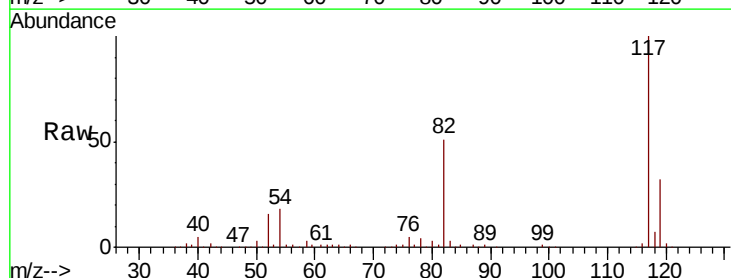
Tgt Ion: 117 Resp: 482712

Ion Ratio Lower Upper

117 100

82 51.4 42.3 63.5

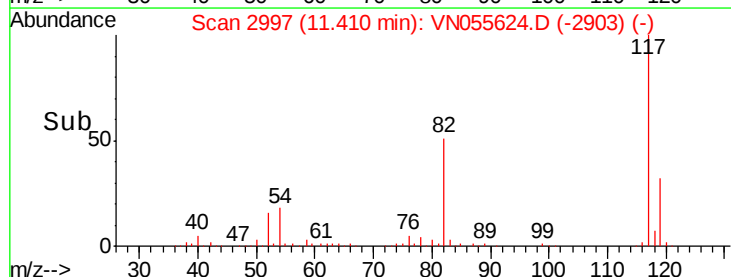
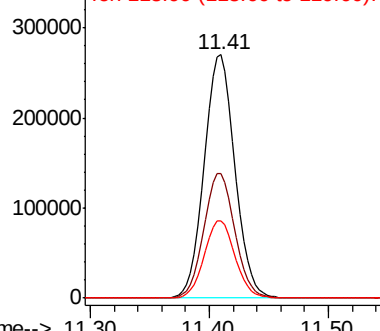
119 31.8 25.4 38.2

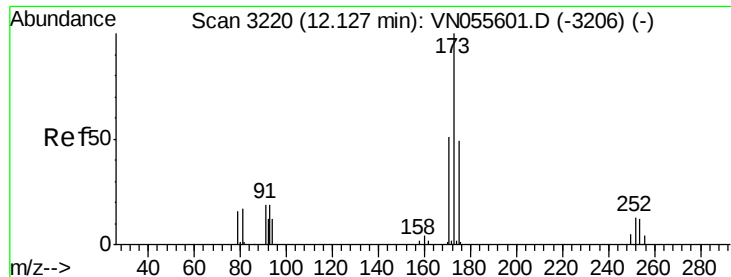


Abundance Ion 116.90 (116.60 to 117.60): VN055601.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055601.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055601.D (-2981) (-)





#71

Bromoform

Concen: 0.402 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN055624.D

Acq: 17 May 2019 20:42

Instrument :

MSVOA_N

ClientSampled :

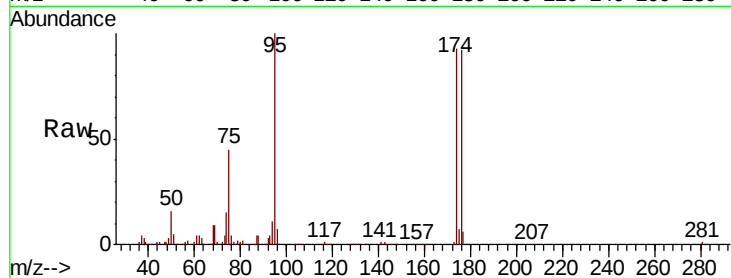
Tot Ion:173 Resp: 1338

Ion Ratio Lower Upper

173 100

175 915.8 24.3 72.9#

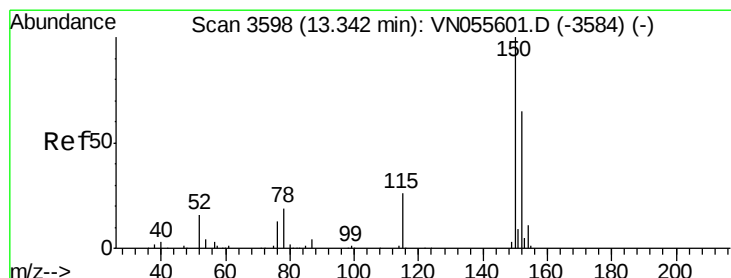
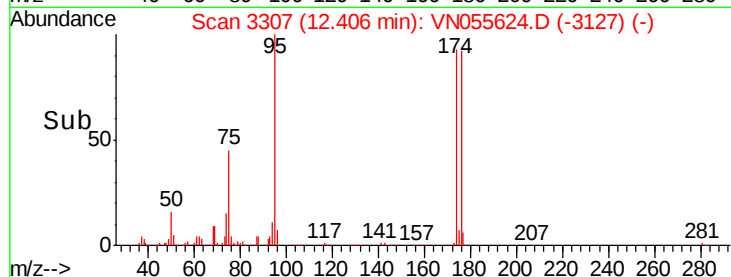
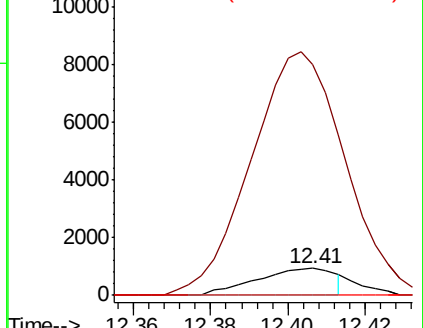
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055624.D

Acq: 17 May 2019 20:42

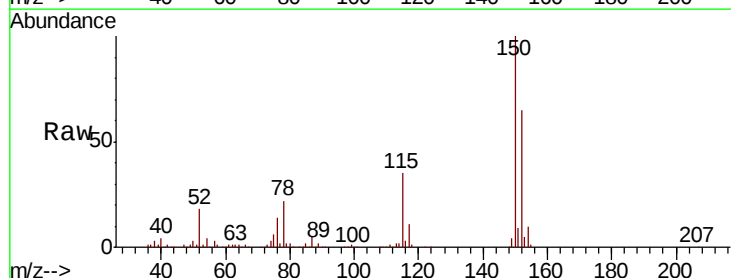
Tgt Ion:152 Resp: 185860

Ion Ratio Lower Upper

152 100

115 54.9 28.1 84.2

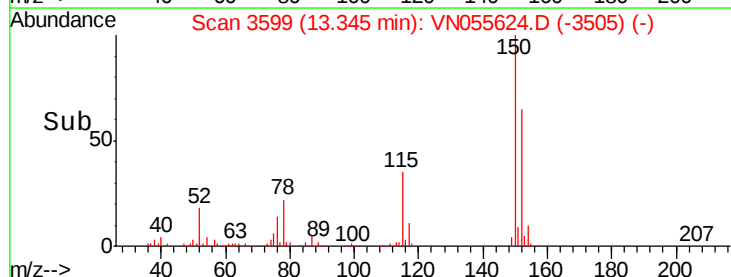
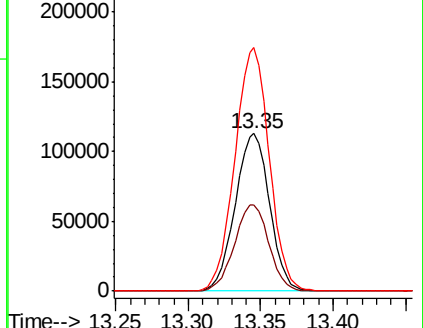
150 154.4 0.0 348.0

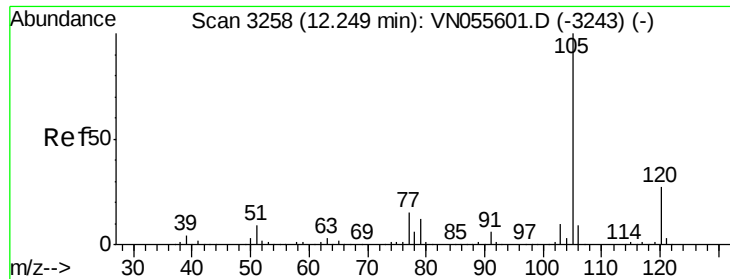


Abundance Ion 151.90 (151.60 to 152.60): V

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# 3258

Delta R.T. 0.00 min

Lab File: VN055624.D

Acq: 17 May 2019 20:42

Instrument :

MSVOA_N

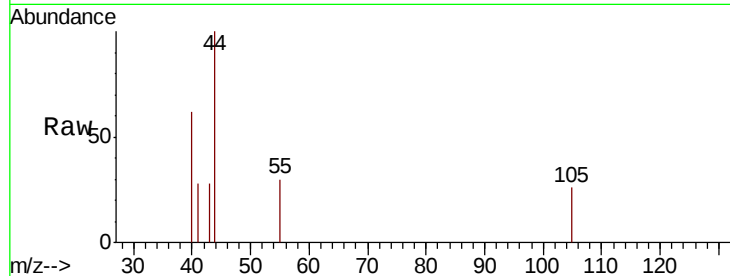
ClientSampleId :

Tot Ion:105 Resp: 30

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

12.25

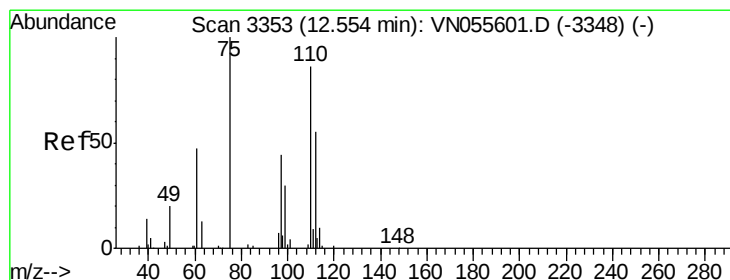
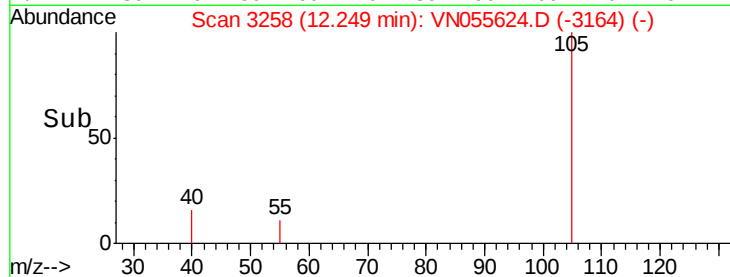
150

100

50

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 25.561 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN055624.D

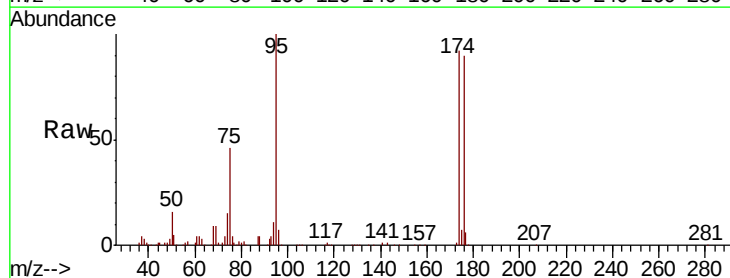
Acq: 17 May 2019 20:42

Tgt Ion: 75 Resp: 96940

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

60000

50000

40000

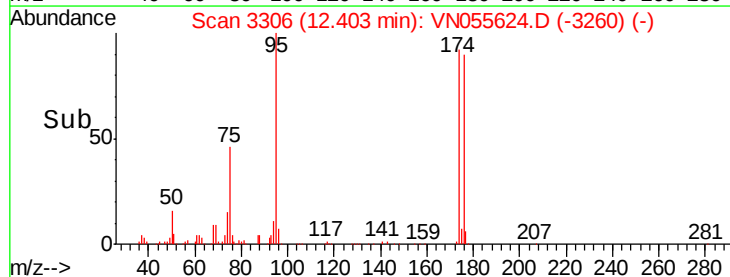
30000

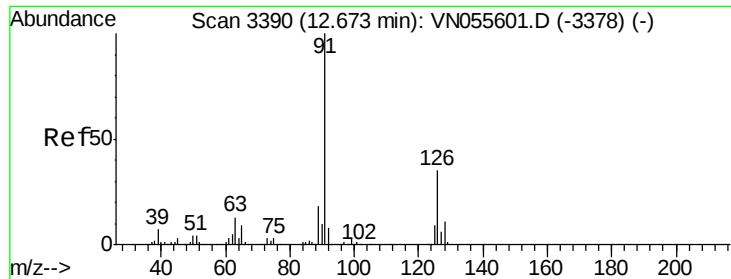
20000

10000

0

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN055624.D

Acq: 17 May 2019 20:42

Instrument :

MSVOA_N

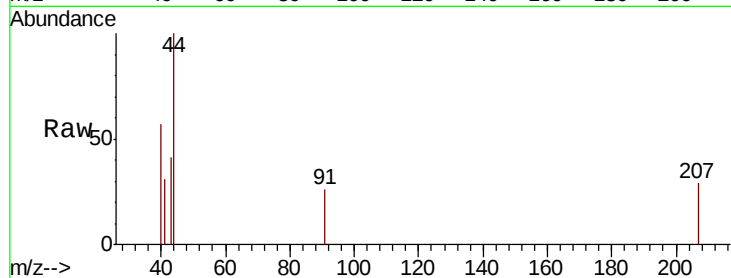
ClientSampleId :

Tot Ion: 91 Resp: 59

Ion Ratio Lower Upper

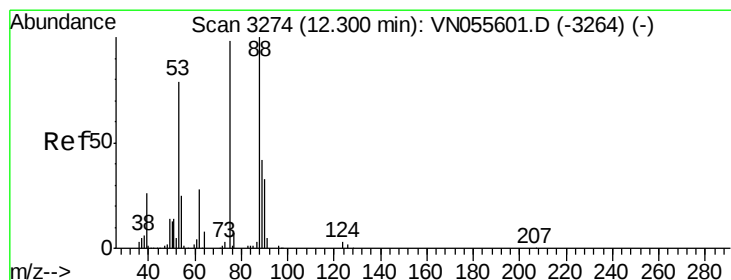
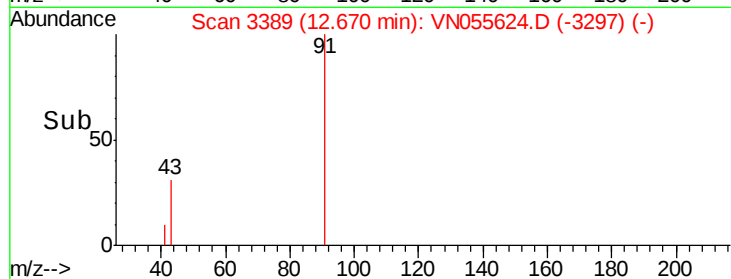
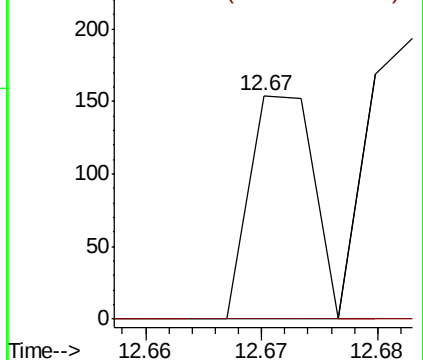
91 100

126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 65.707 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN055624.D

Acq: 17 May 2019 20:42

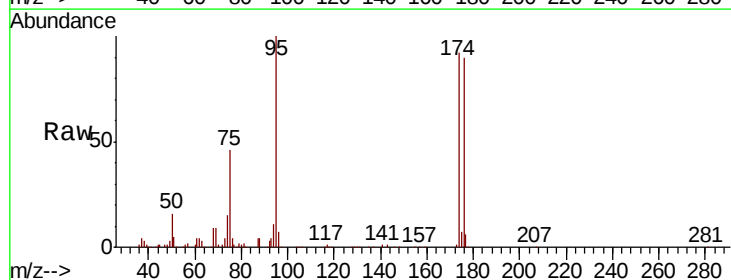
Tgt Ion: 75 Resp: 96940

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

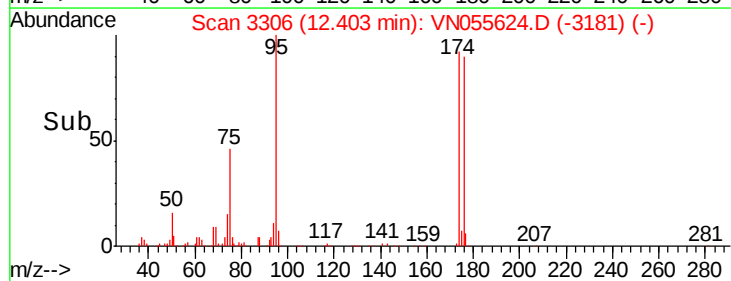
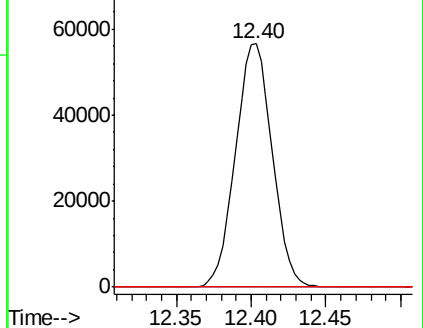
89 0.0 36.4 54.6#

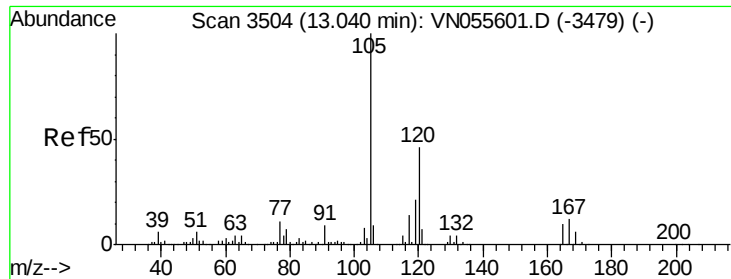


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

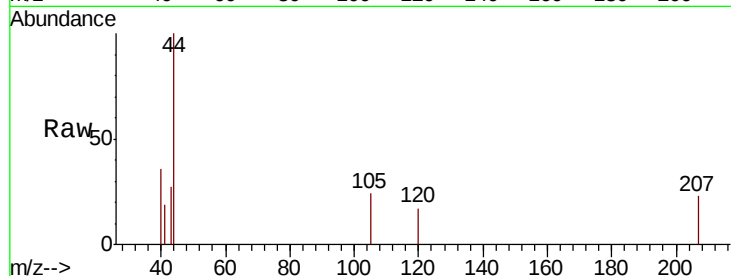




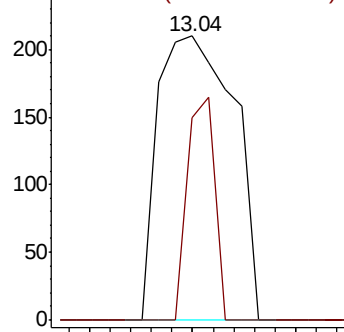
#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055624.D
 Acq: 17 May 2019 20:42

Instrument :
 MSVOA_N
 ClientSampled :

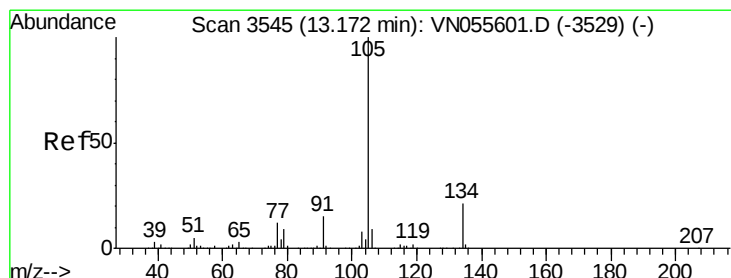
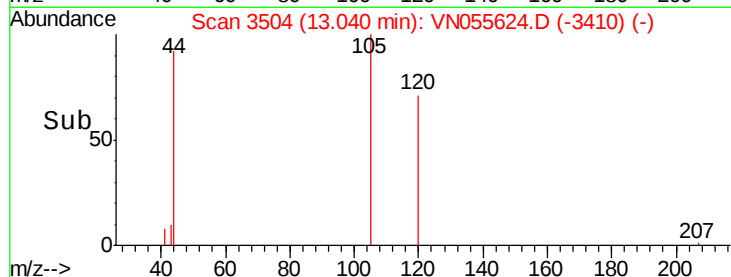
Tot Ion:105 Resp: 214
 Ion Ratio Lower Upper
 105 100
 120 28.5 23.1 69.2



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

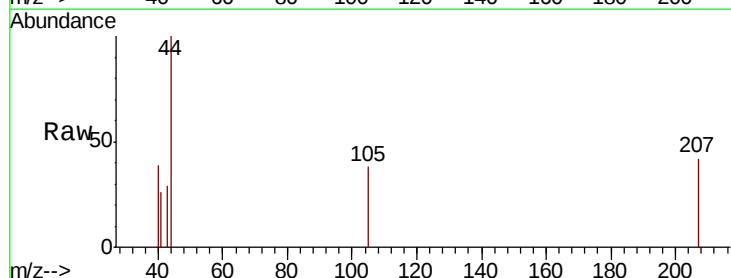


Time-->

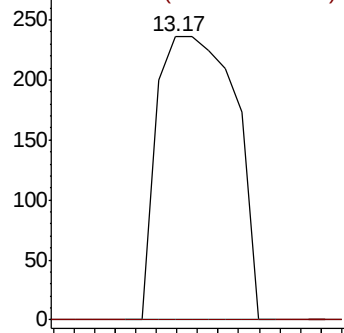


#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055624.D
 Acq: 17 May 2019 20:42

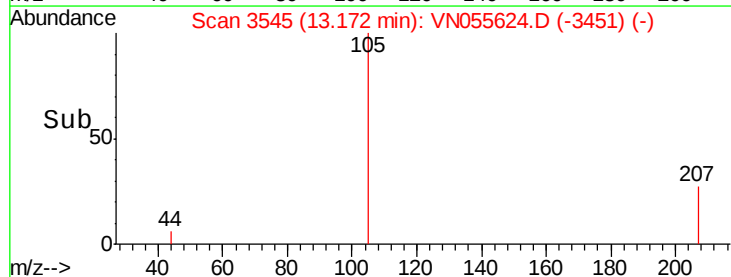
Tgt Ion:105 Resp: 247
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.3 30.9#

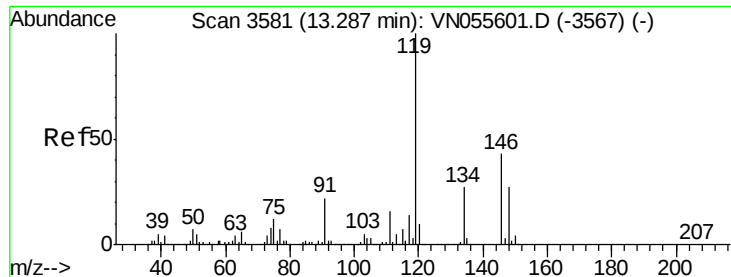


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 134.00 (133.70 to 134.70): V



Time-->

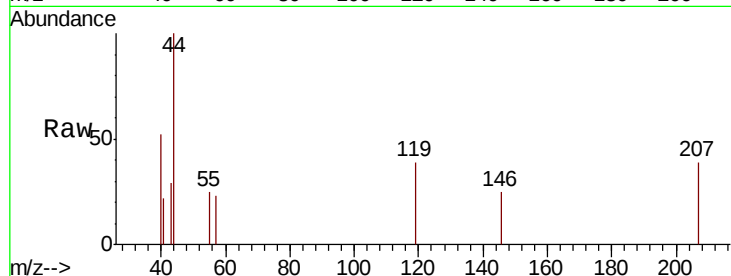




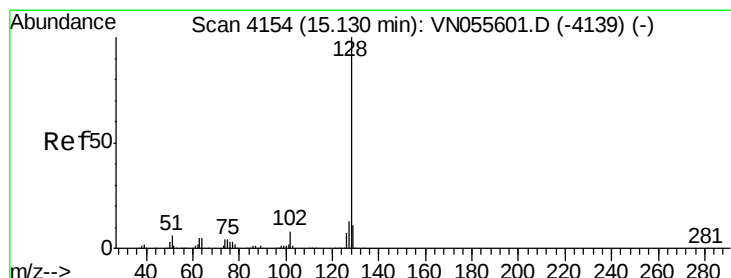
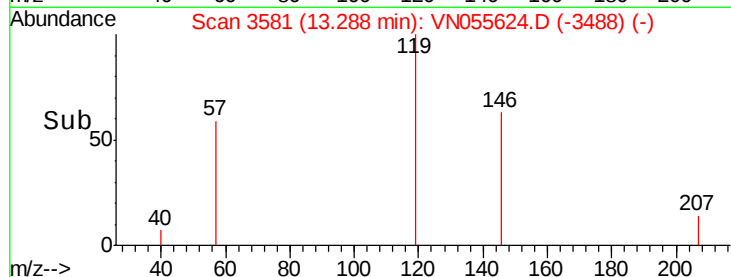
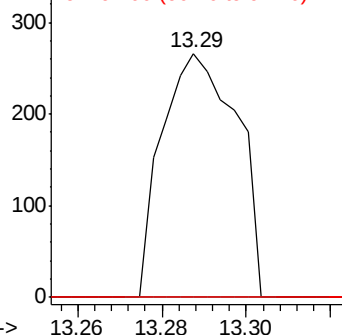
#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055624.D
 Acq: 17 May 2019 20:42

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.4	40.2#
91	0.0	11.0	33.0#

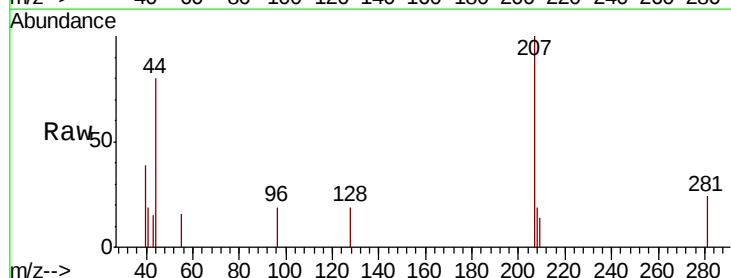


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V



#95
 Naphthalene
 Concen: 1.788 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.01 min
 Lab File: VN055624.D
 Acq: 17 May 2019 20:42

Tgt 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

