

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121718\
 Data File : VN052919.D
 Acq On : 17 Dec 2018 11:37
 Operator : MD\SY
 Sample : J6437-02 50X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 23575

Quant Time: Dec 18 05:38:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1362844	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2092524	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1881745	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	797949	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	677310	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
35) Dibromofluoromethane	7.59	113	504650	43.20	ug/l	0.00
Spiked Amount			Recovery	=	86.40%	
50) Toluene-d8	10.09	98	2567096	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
62) 4-Bromofluorobenzene	12.40	95	880721	51.32	ug/l	0.00
Spiked Amount			Recovery	=	102.64%	

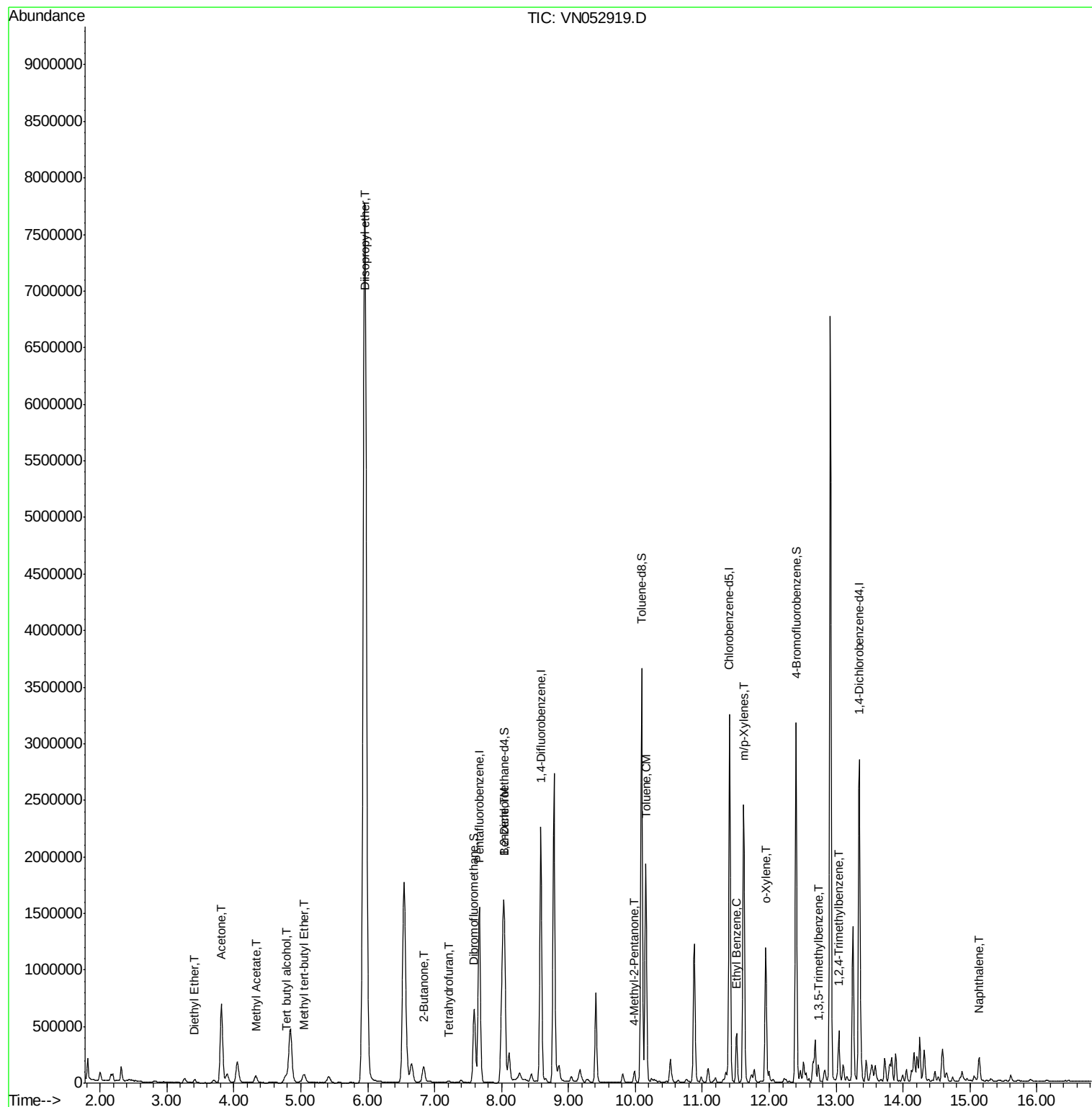
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.42	74	15025	1.972	ug/l	97
11) Tert butyl alcohol	4.78	59	116981	144.477	ug/l	99
16) Acetone	3.81	43	1159494	356.268	ug/l	98
18) Methyl Acetate	4.33	43	118104	9.888	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	119731	3.520	ug/l	97
22) Diisopropyl ether	5.96	45	328872	7.532	ug/l #	1
25) 2-Butanone	6.83	43	245798	48.674	ug/l	98
29) Tetrahydrofuran	7.22	42	7484	2.171	ug/l	94
40) Benzene	8.04	78	1004534	17.369	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	70316	6.461	ug/l	100
52) Toluene	10.16	92	844907	24.121	ug/l	100
67) Ethyl Benzene	11.51	91	319573	4.767	ug/l	99
68) m/p-Xylenes	11.62	106	801496	31.838	ug/l	99
69) o-Xylene	11.95	106	329589	13.408	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	83304	1.732	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	256865	5.276	ug/l	99
95) Naphthalene	15.14	128	165616	5.679	ug/l	99

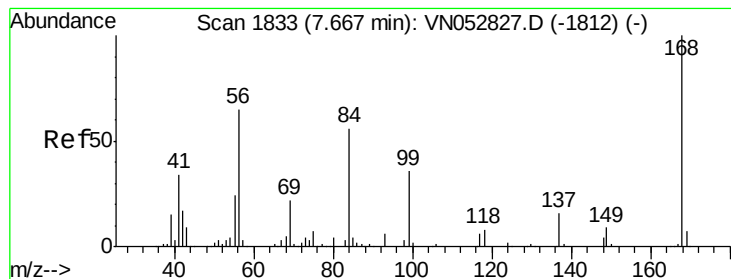
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052919.D

Acq: 17 Dec 2018 11:37

Instrument :

MSVOA_N

ClientSampled :

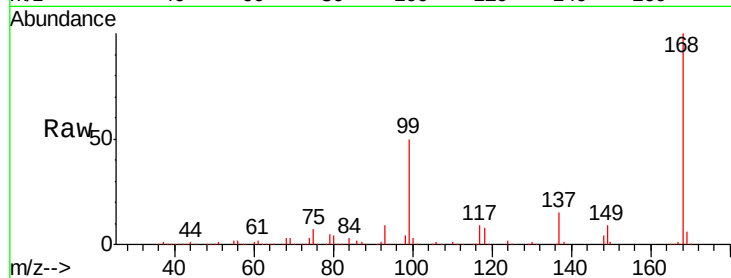
23575

Tgt Ion:168 Resp: 1362844

Ion Ratio Lower Upper

168 100

99 50.4 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

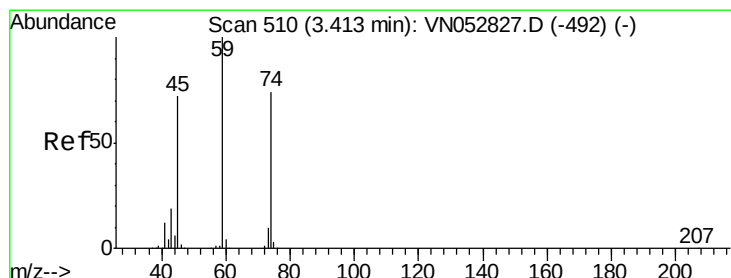
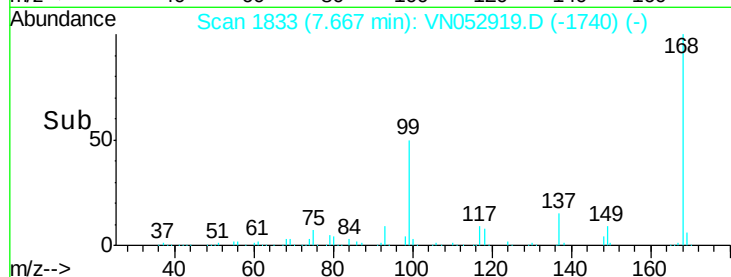
600000

400000

200000

0

Time-->



#8

Diethyl Ether

Concen: 1.972 ug/l

RT: 3.42 min Scan# 511

Delta R.T. 0.00 min

Lab File: VN052919.D

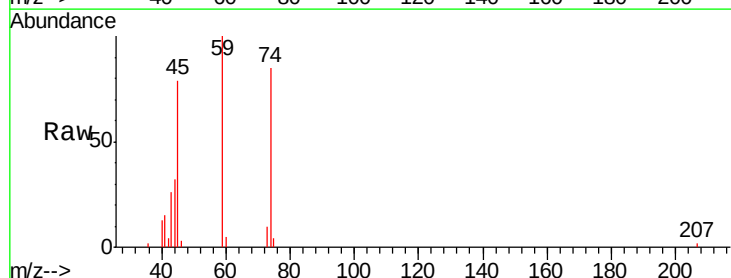
Acq: 17 Dec 2018 11:37

Tgt Ion: 74 Resp: 15025

Ion Ratio Lower Upper

74 100

45 101.5 49.4 148.0



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

3.42

8000

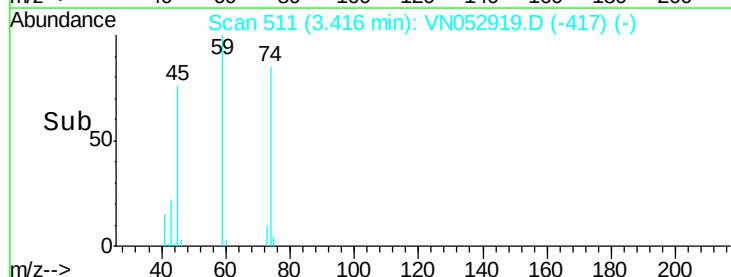
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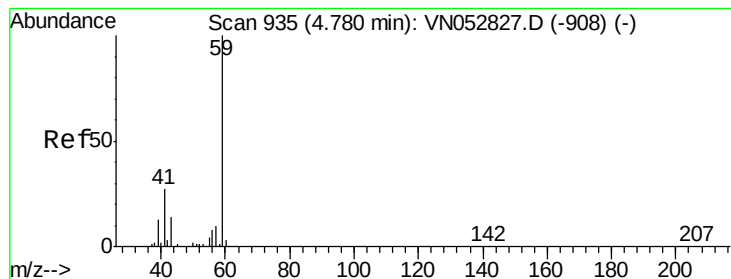
4000

2000

0

Time-->



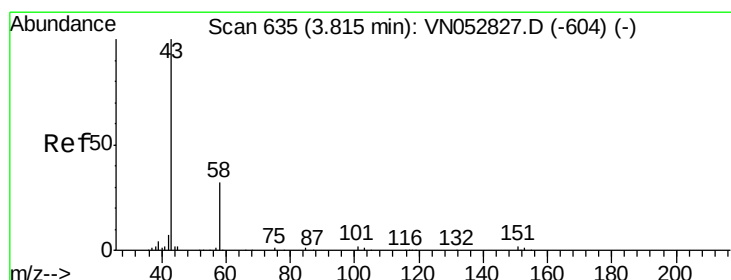
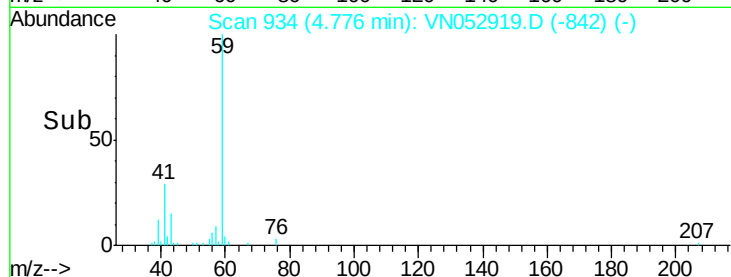
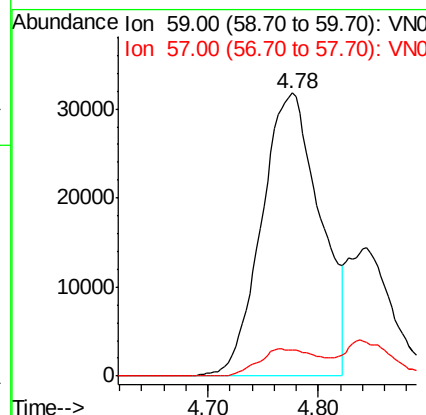
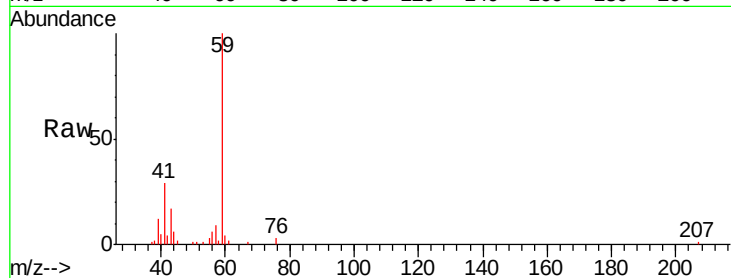


#11

Tert butyl alcohol
 Concen: 144.477 ug/l
 RT: 4.78 min Scan# 934
 Delta R.T. -0.00 min
 Lab File: VN052919.D
 Acq: 17 Dec 2018 11:37

Instrument :
 MSVOA_N
 ClientSampled :
 23575

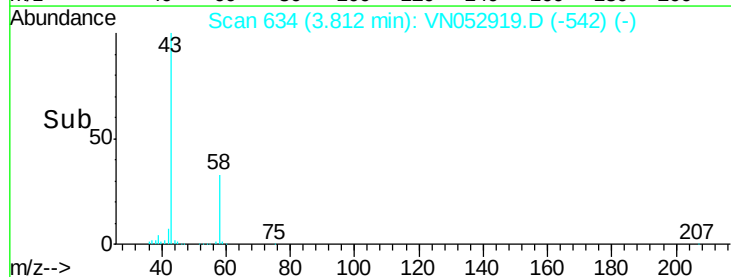
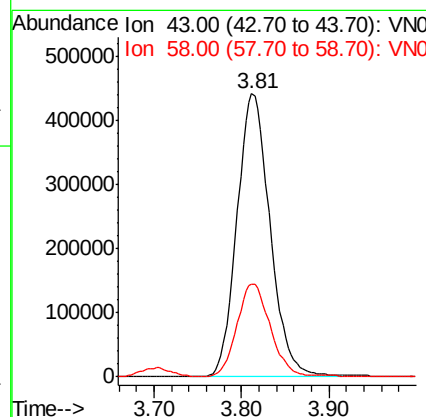
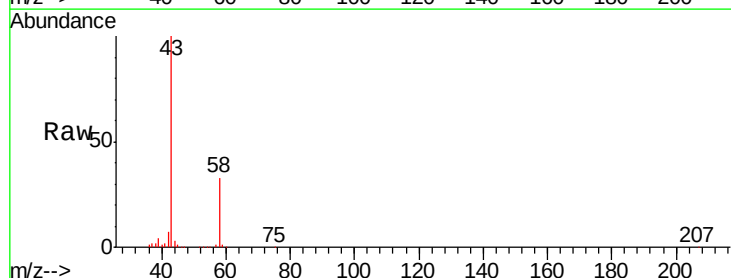
Tgt Ion: 59 Resp: 116981
 Ion Ratio Lower Upper
 59 100
 57 9.9 7.7 11.5

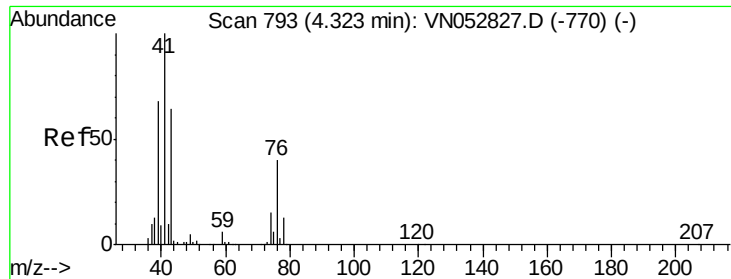


#16

Acetone
 Concen: 356.268 ug/l
 RT: 3.81 min Scan# 634
 Delta R.T. -0.00 min
 Lab File: VN052919.D
 Acq: 17 Dec 2018 11:37

Tgt Ion: 43 Resp: 1159494
 Ion Ratio Lower Upper
 43 100
 58 32.6 25.4 38.0

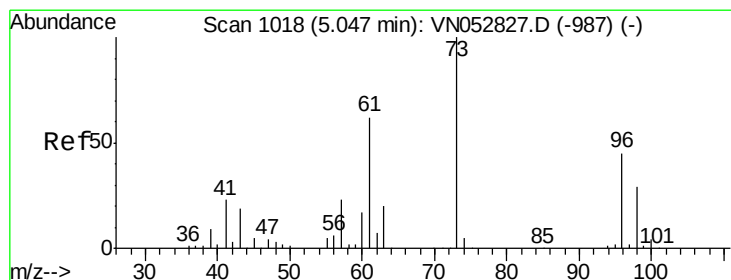
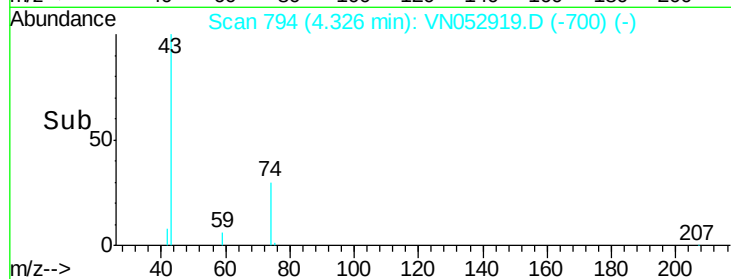
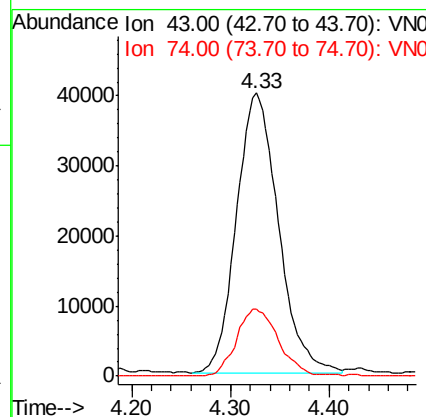
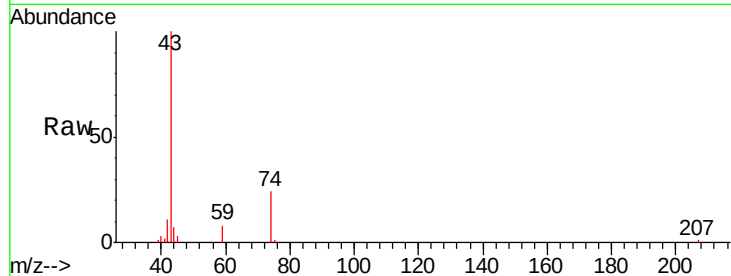




#18
Methyl Acetate
Concen: 9.888 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052919.D
Acq: 17 Dec 2018 11:37

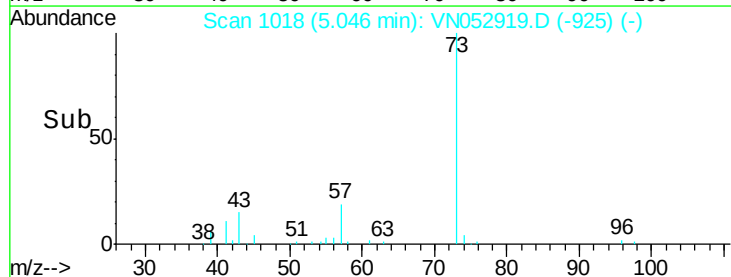
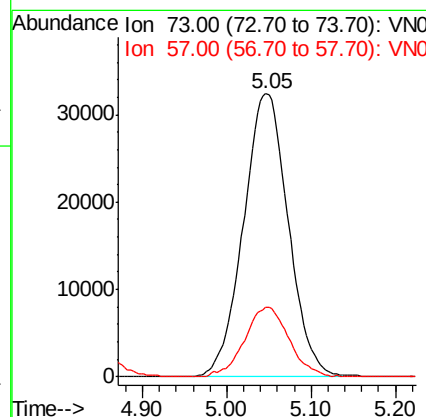
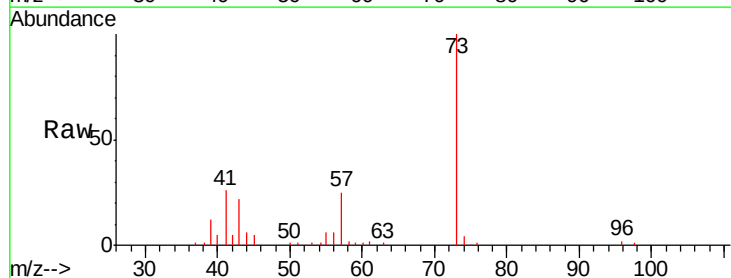
Instrument :
MSVOA_N
ClientSampled :
23575

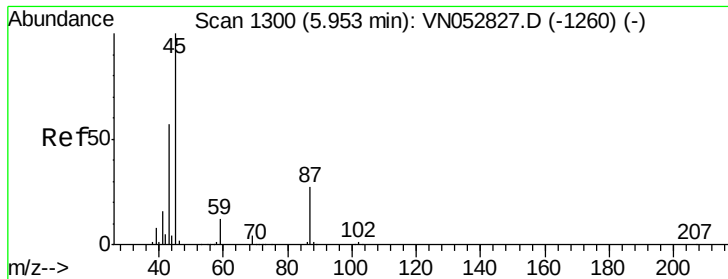
Tgt Ion: 43 Resp: 118104
Ion Ratio Lower Upper
43 100
74 23.8 19.2 28.8



#19
Methyl tert-butyl Ether
Concen: 3.520 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052919.D
Acq: 17 Dec 2018 11:37

Tgt Ion: 73 Resp: 119731
Ion Ratio Lower Upper
73 100
57 24.6 18.4 27.6





#22

Diisopropyl ether

Concen: 7.532 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VN052919.D

Acq: 17 Dec 2018 11:37

Instrument :

MSVOA_N

ClientSampled :

23575

Tgt Ion: 45 Resp: 328872

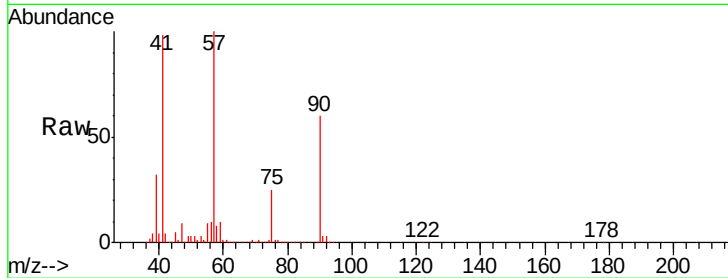
Ion Ratio Lower Upper

45 100

43 6.0 45.5 68.3#

87 0.4 22.0 33.0#

59 202.6 9.4 14.0#



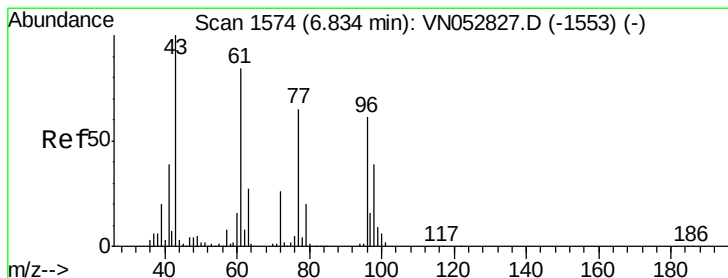
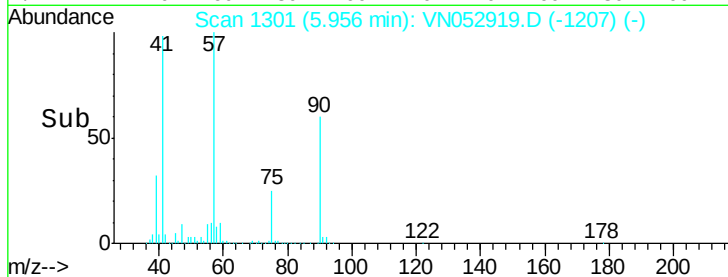
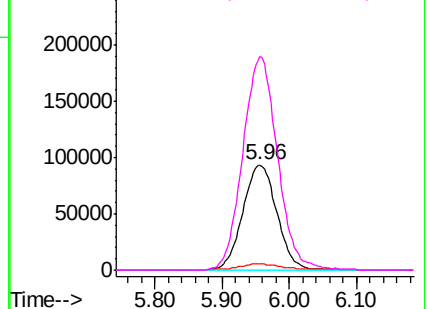
Abundance

Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO



#25

2-Butanone

Concen: 48.674 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN052919.D

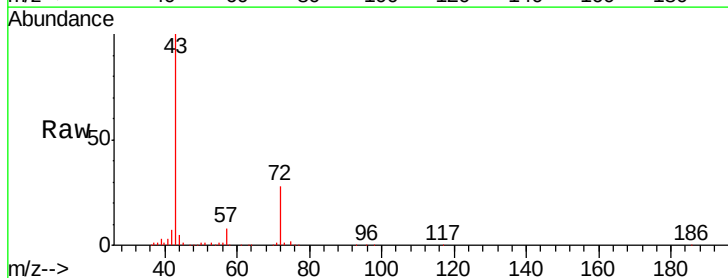
Acq: 17 Dec 2018 11:37

Tgt Ion: 43 Resp: 245798

Ion Ratio Lower Upper

43 100

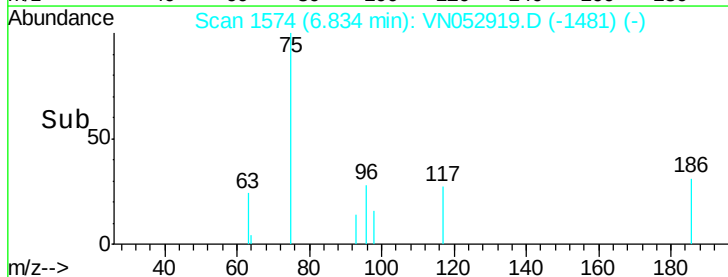
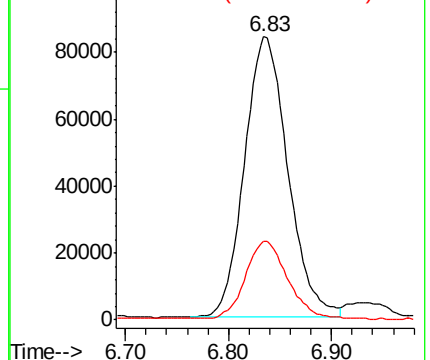
72 27.5 21.0 31.6

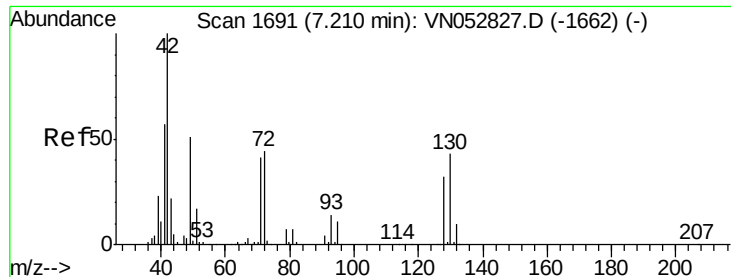


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

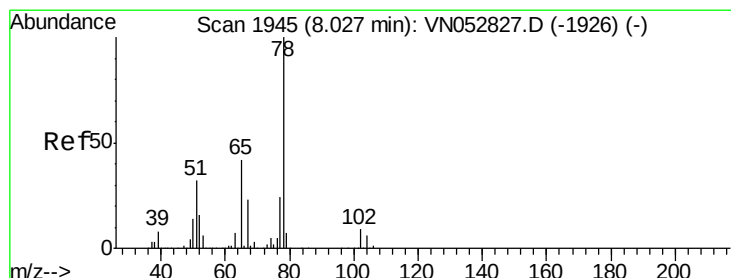
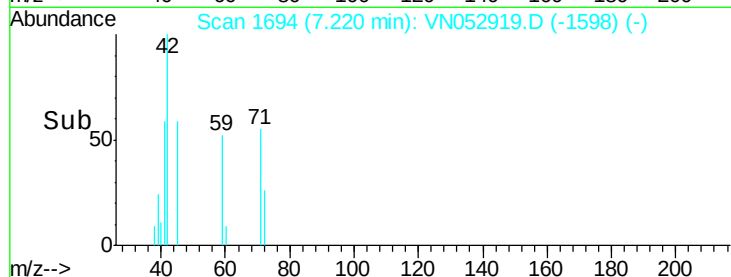
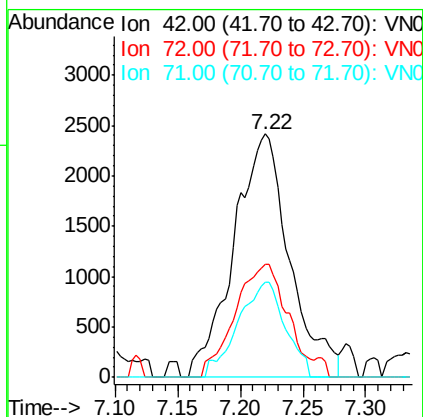
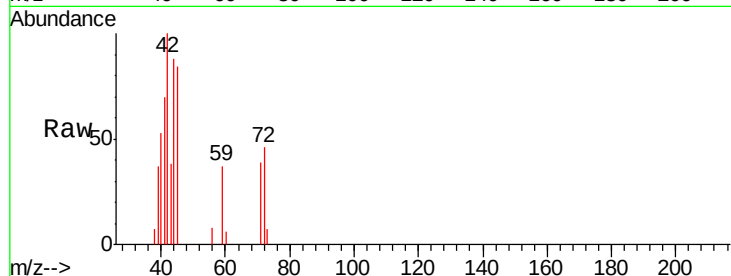




#29
Tetrahydrofuran
Concen: 2.171 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN052919.D
Acq: 17 Dec 2018 11:37

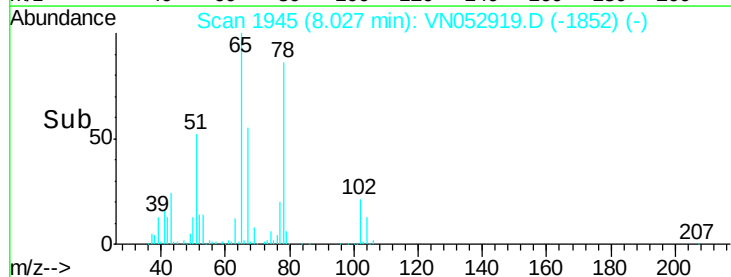
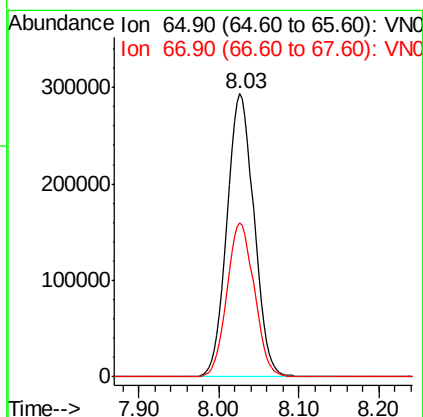
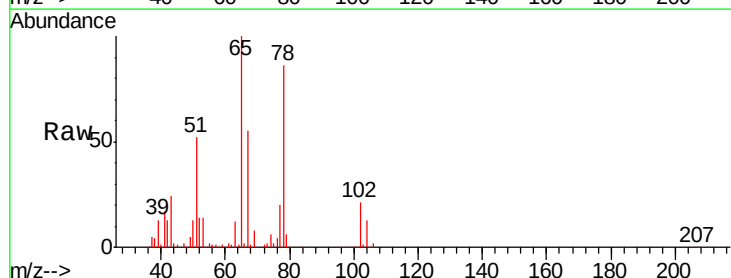
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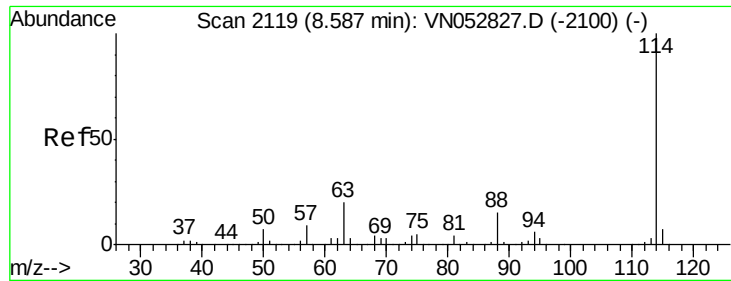
Tgt Ion: 42 Resp: 7484
Ion Ratio Lower Upper
42 100
72 43.6 34.7 52.1
71 33.0 32.3 48.5



#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN052919.D
Acq: 17 Dec 2018 11:37

Tgt Ion: 65 Resp: 677310
Ion Ratio Lower Upper
65 100
67 54.9 0.0 110.4

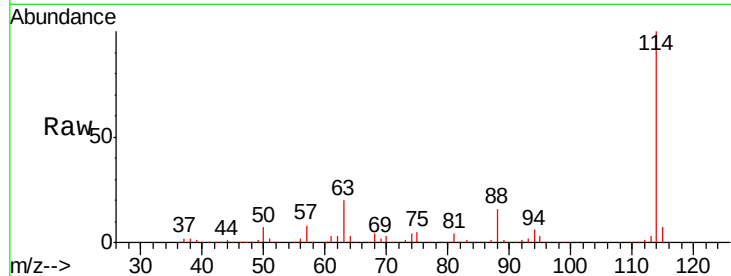




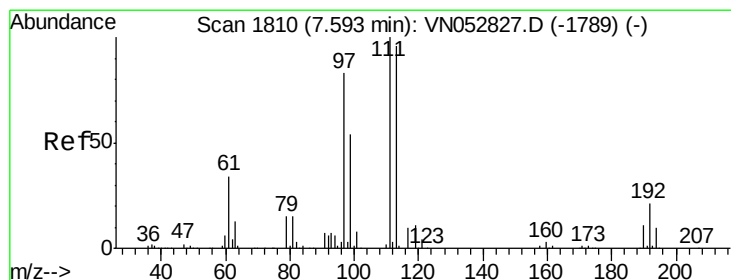
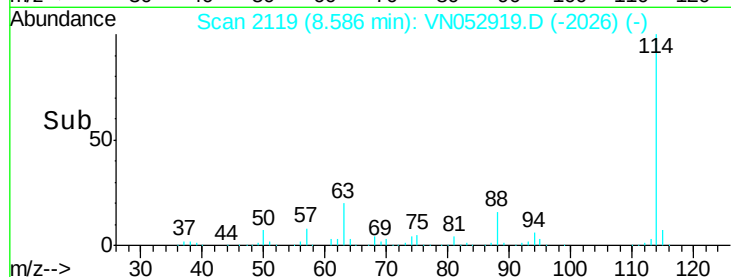
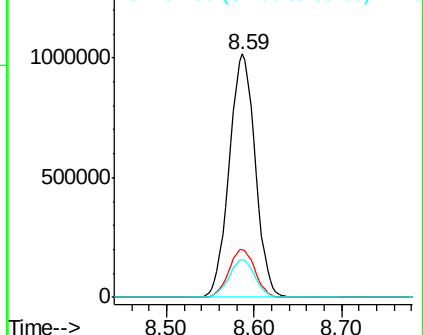
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052919.D
 Acq: 17 Dec 2018 11:37

Instrument :
 MSVOA_N
 ClientSampleId :
 23575

Tgt Ion:114 Resp: 2092524
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.8
 88 15.7 0.0 31.0

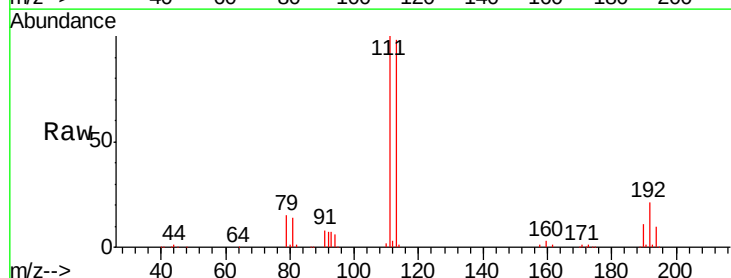


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

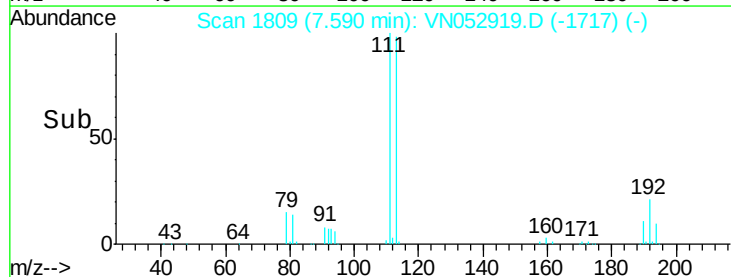
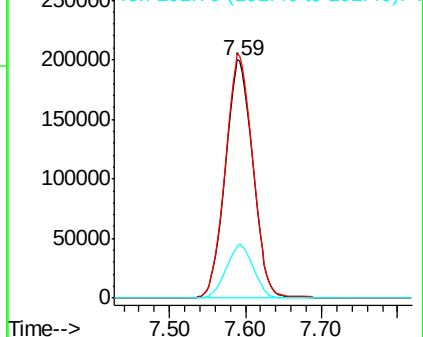


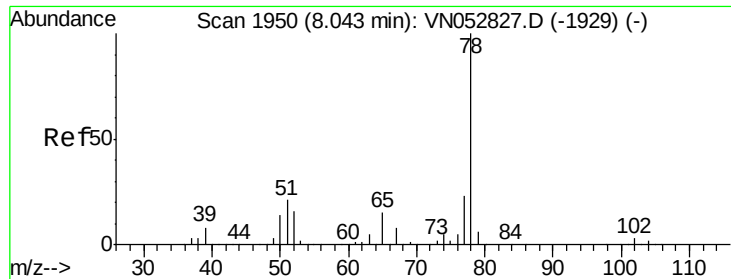
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052919.D
 Acq: 17 Dec 2018 11:37

Tgt Ion:113 Resp: 504650
 Ion Ratio Lower Upper
 113 100
 111 102.3 83.0 124.4
 192 22.1 17.5 26.3



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





#40

Benzene

Concen: 17.369 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. -0.00 min

Lab File: VN052919.D

Acq: 17 Dec 2018 11:37

Instrument :

MSVOA_N

ClientSampleId :

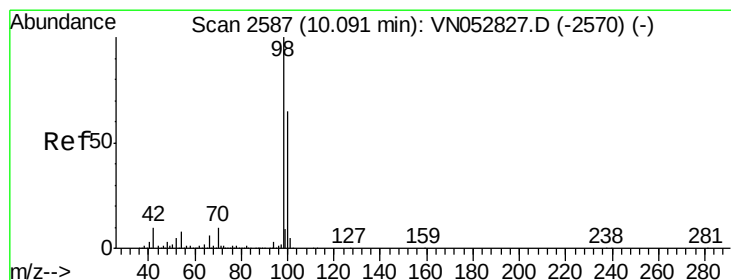
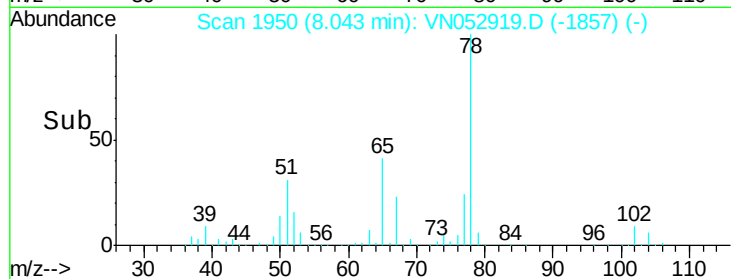
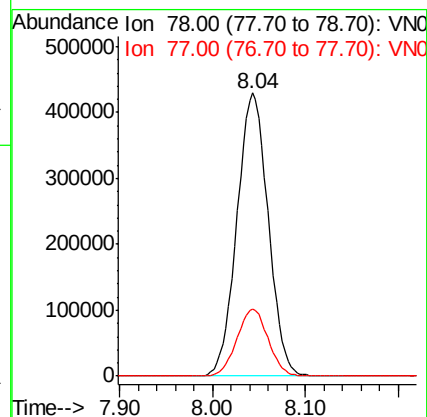
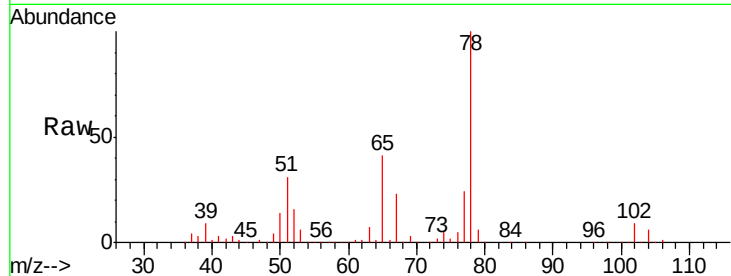
23575

Tgt Ion: 78 Resp: 1004534

Ion Ratio Lower Upper

78 100

77 23.8 18.5 27.7



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052919.D

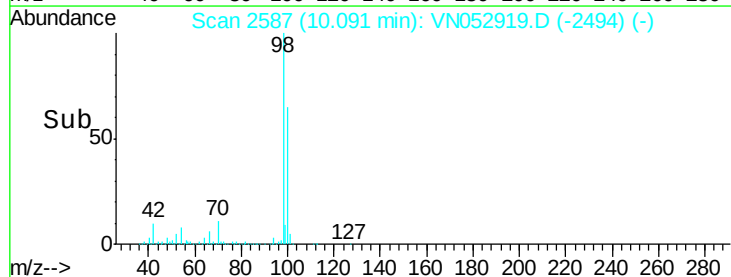
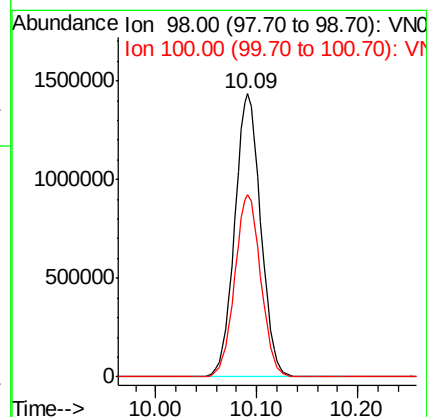
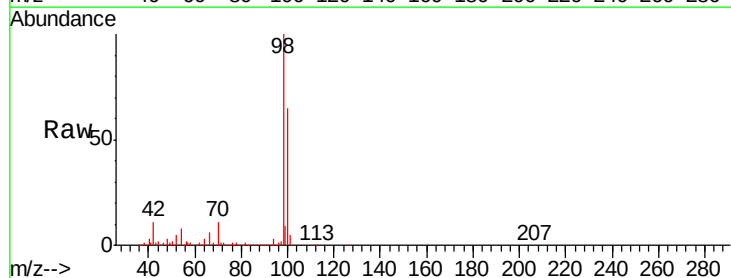
Acq: 17 Dec 2018 11:37

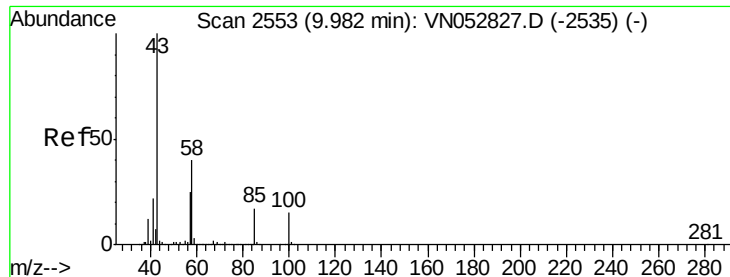
Tgt Ion: 98 Resp: 2567096

Ion Ratio Lower Upper

98 100

100 64.5 51.6 77.4

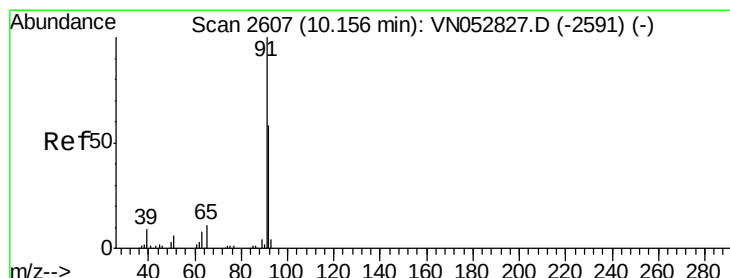
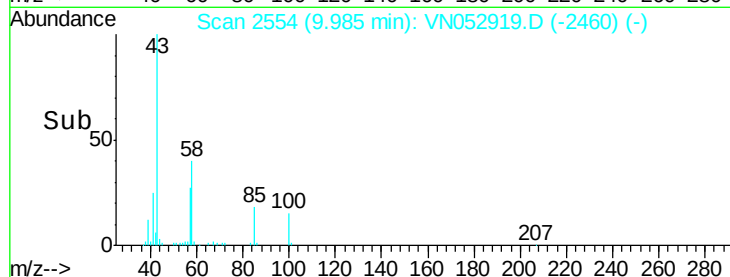
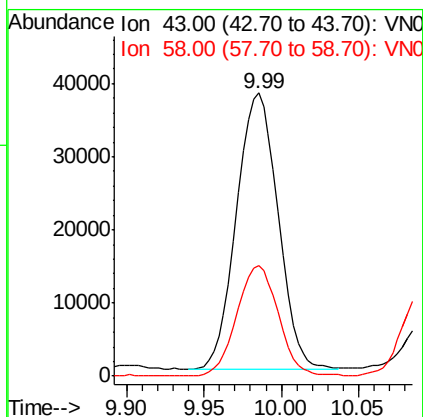
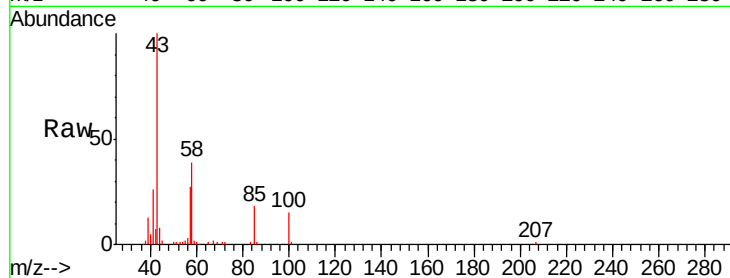




#51
4-Methyl-2-Pentanone
Concen: 6.461 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052919.D
Acq: 17 Dec 2018 11:37

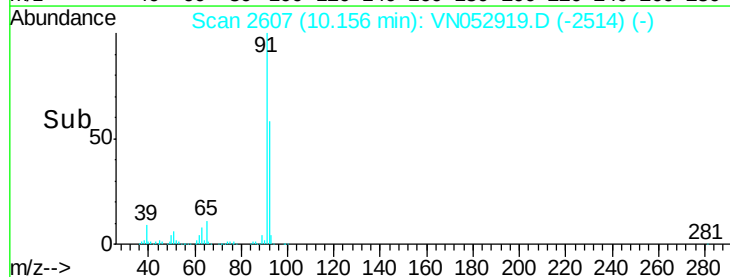
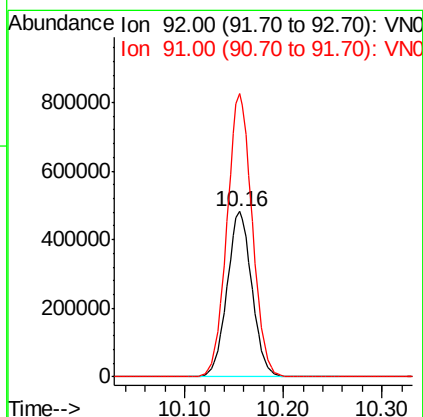
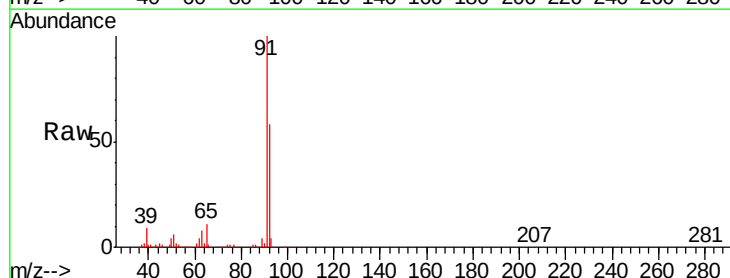
Instrument :
MSVOA_N
ClientSampled :
23575

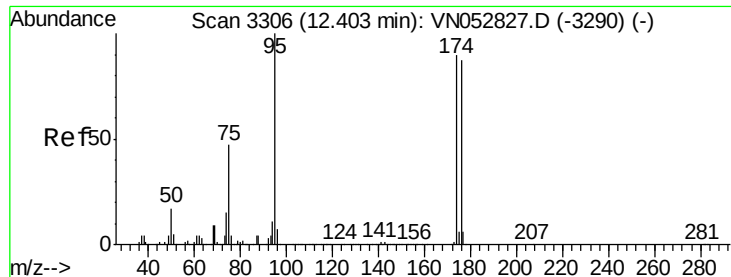
Tgt Ion: 43 Resp: 70316
Ion Ratio Lower Upper
43 100
58 40.2 32.2 48.4



#52
Toluene
Concen: 24.121 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN052919.D
Acq: 17 Dec 2018 11:37

Tgt Ion: 92 Resp: 844907
Ion Ratio Lower Upper
92 100
91 174.3 139.8 209.6





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN052919.D

Acq: 17 Dec 2018 11:37

Instrument :

MSVOA_N

ClientSampleId :

23575

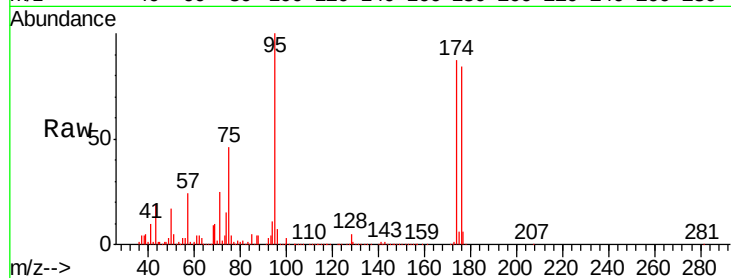
Tgt Ion: 95 Resp: 880721

Ion Ratio Lower Upper

95 100

174 87.8 0.0 178.8

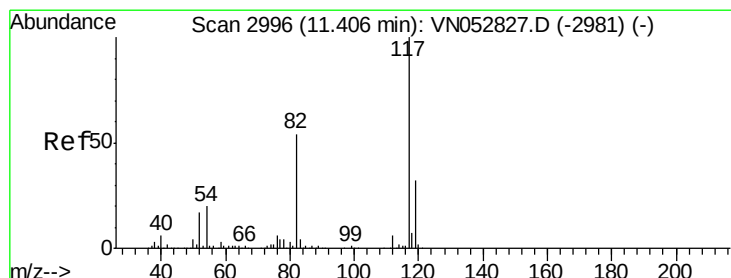
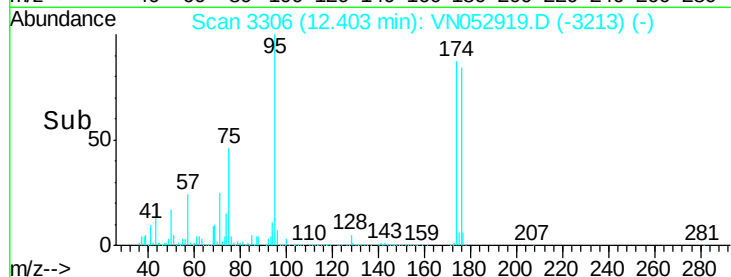
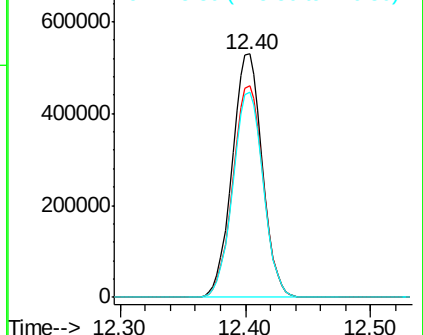
176 85.1 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN052827.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN052827.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN052827.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052919.D

Acq: 17 Dec 2018 11:37

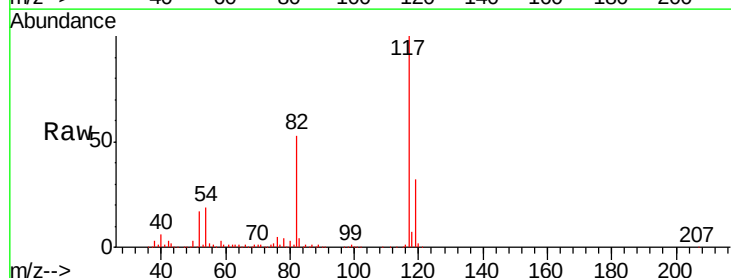
Tgt Ion: 117 Resp: 1881745

Ion Ratio Lower Upper

117 100

82 53.2 42.8 64.2

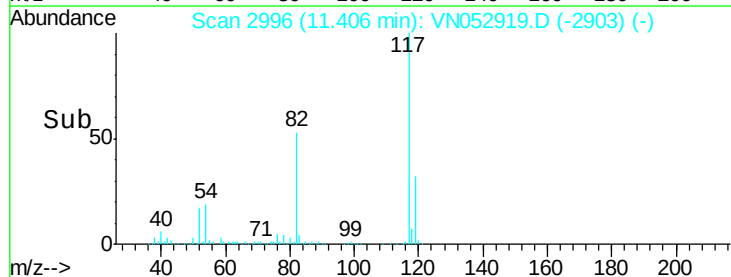
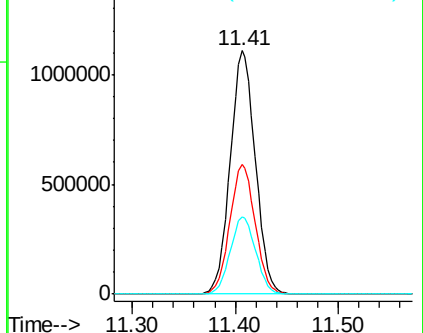
119 31.9 25.5 38.3

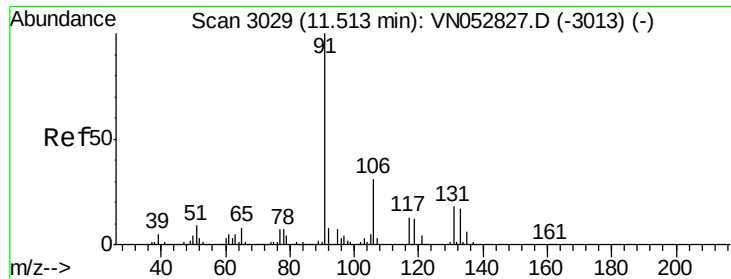


Abundance Ion 116.90 (116.60 to 117.60): VN052827.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052827.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052827.D (-2981) (-)

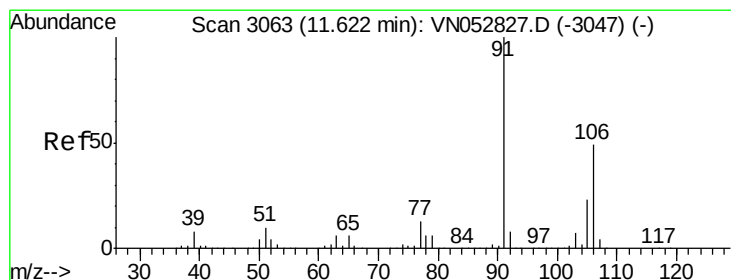
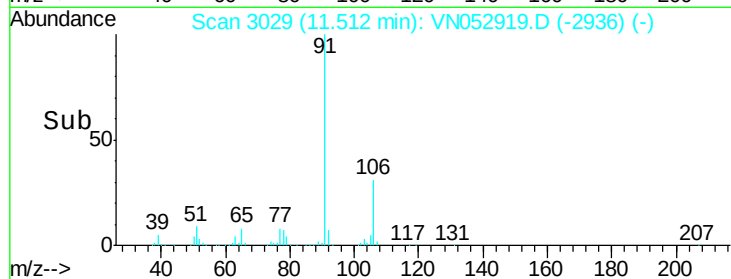
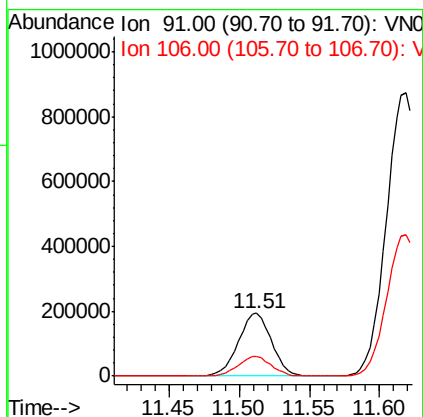
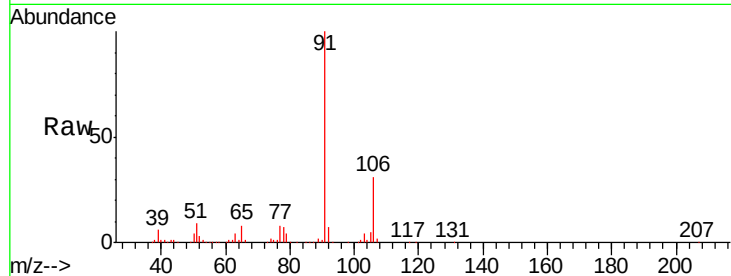




#67
Ethyl Benzene
Concen: 4.767 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN052919.D
Acq: 17 Dec 2018 11:37

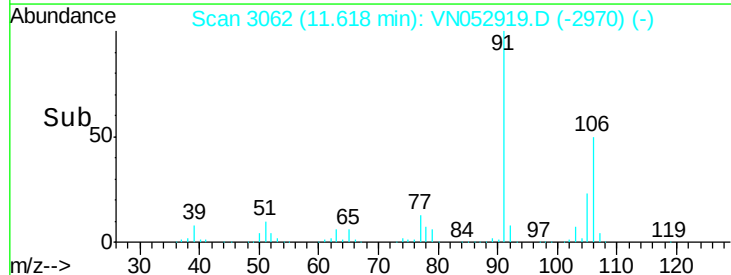
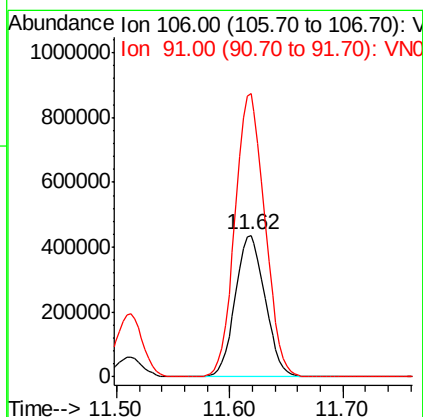
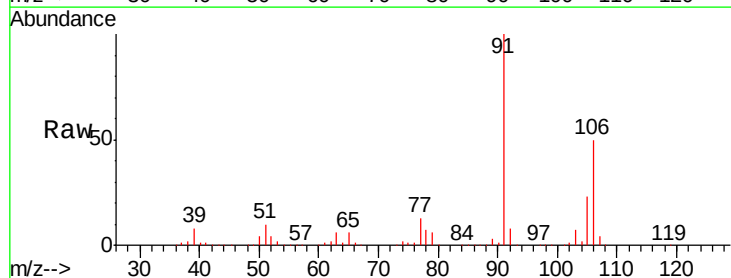
Instrument :
MSVOA_N
ClientSampled :
23575

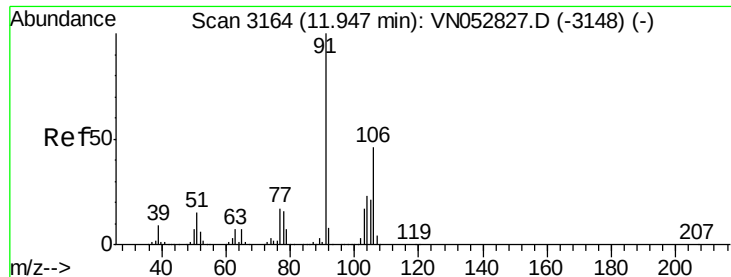
Tgt Ion: 91 Resp: 319573
Ion Ratio Lower Upper
91 100
106 31.4 24.9 37.3



#68
m/p-Xylenes
Concen: 31.838 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052919.D
Acq: 17 Dec 2018 11:37

Tgt Ion: 106 Resp: 801496
Ion Ratio Lower Upper
106 100
91 200.7 162.2 243.4

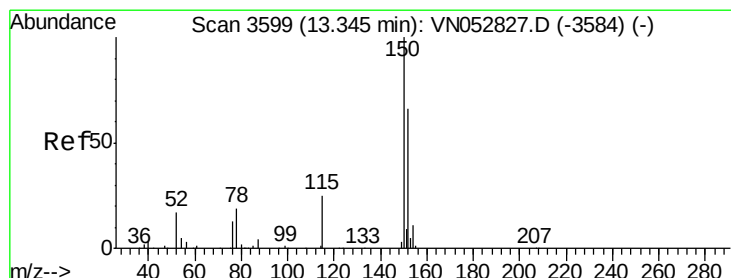
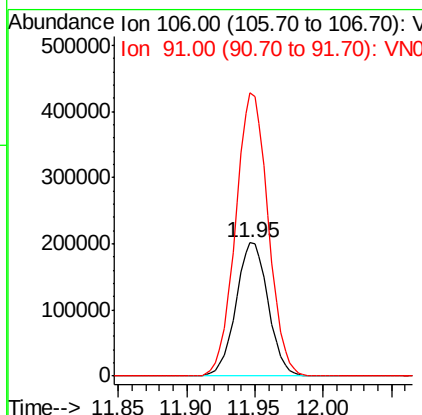
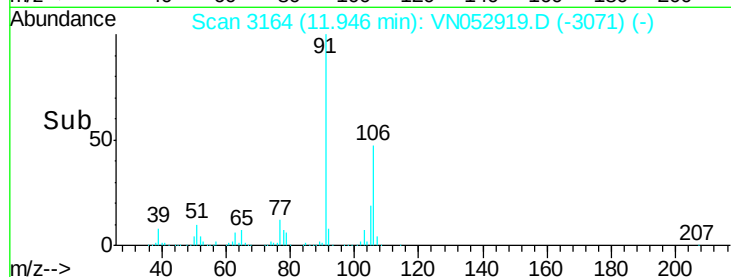
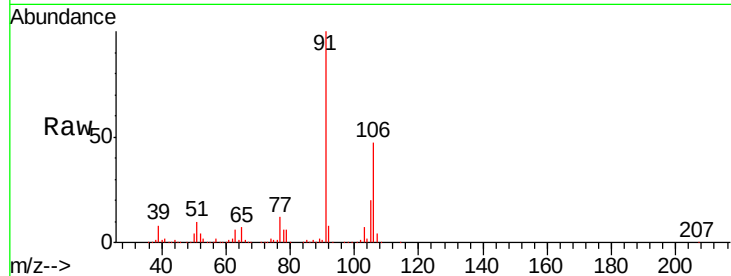




#69
o-Xylene
Concen: 13.408 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052919.D
Acq: 17 Dec 2018 11:37

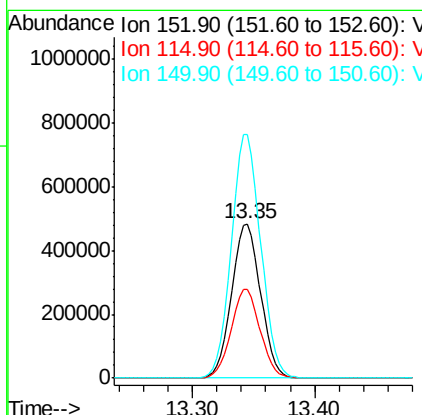
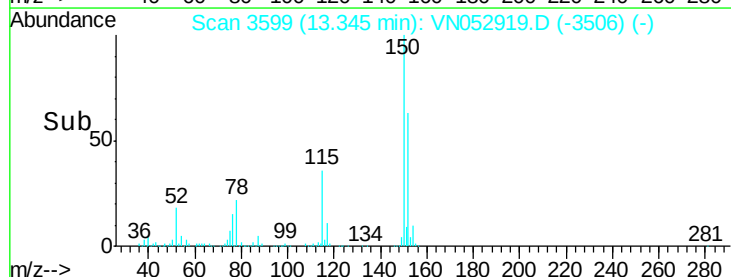
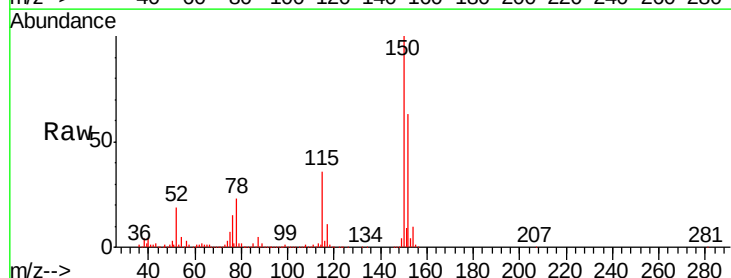
Instrument :
MSVOA_N
ClientSampled :
23575

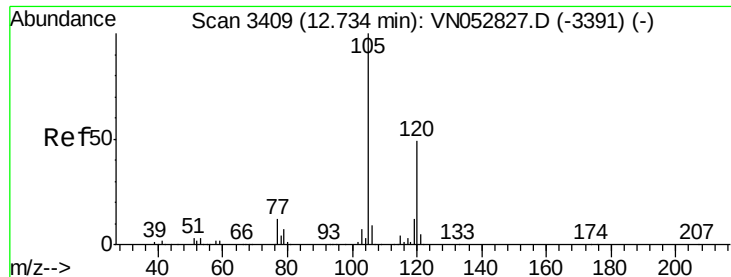
Tgt Ion:106 Resp: 329589
Ion Ratio Lower Upper
106 100
91 215.3 106.6 319.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN052919.D
Acq: 17 Dec 2018 11:37

Tgt Ion:152 Resp: 797949
Ion Ratio Lower Upper
152 100
115 57.4 28.3 85.0
150 160.3 0.0 347.8





#80

1,3,5-Trimethylbenzene

Concen: 1.732 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN052919.D

Acq: 17 Dec 2018 11:37

Instrument :

MSVOA_N

ClientSampled :

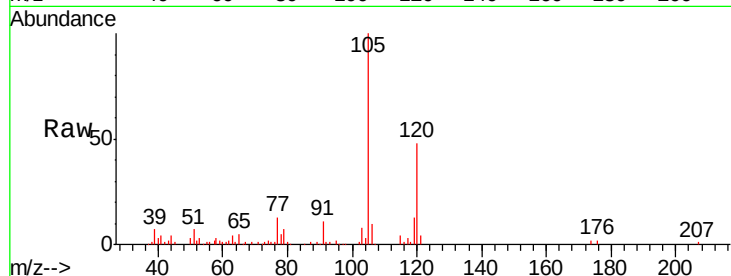
23575

Tgt Ion:105 Resp: 83304

Ion Ratio Lower Upper

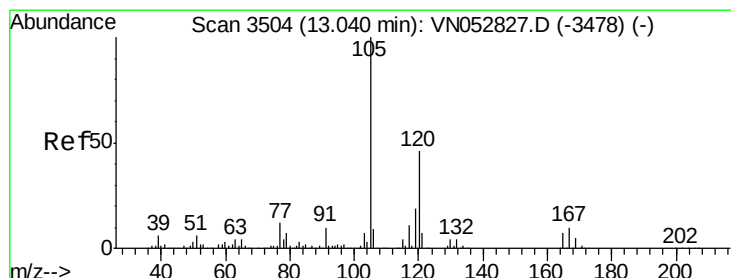
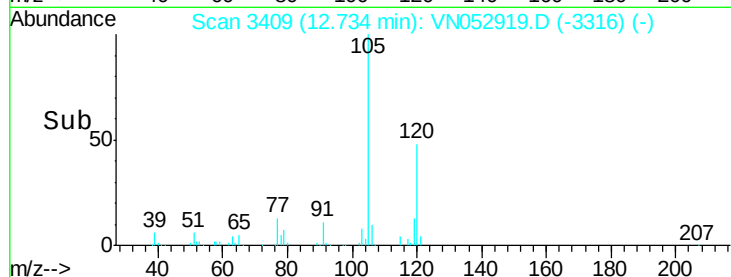
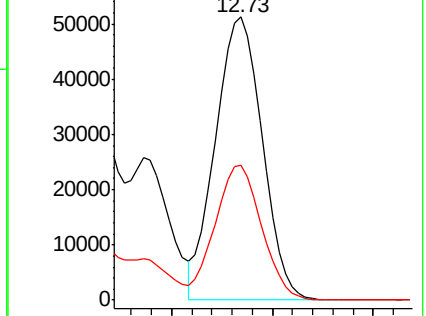
105 100

120 47.1 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 5.276 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN052919.D

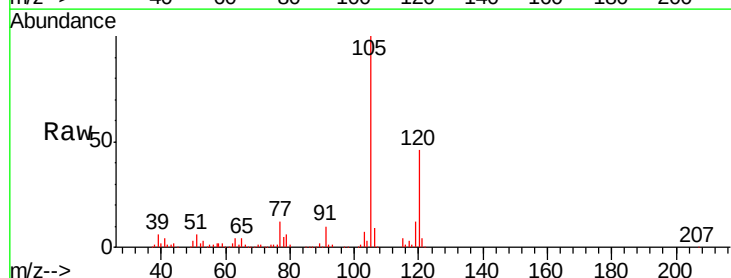
Acq: 17 Dec 2018 11:37

Tgt Ion:105 Resp: 256865

Ion Ratio Lower Upper

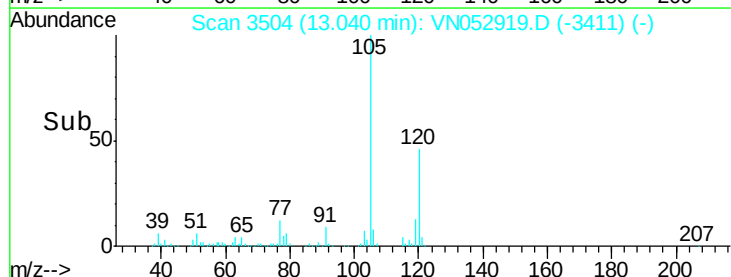
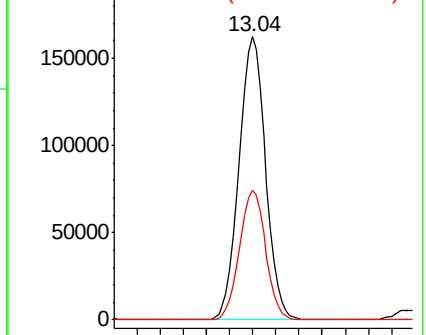
105 100

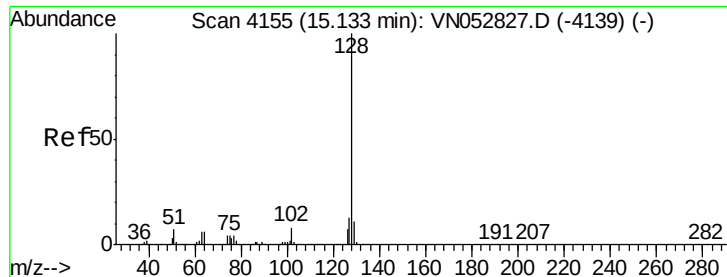
120 45.2 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 5.679 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN052919.D
Acq: 17 Dec 2018 11:37

Instrument :
MSVOA_N
ClientSampleId :
23575

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	11.2	8.6	13.0

