

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100319\
 Data File : VN058519.D
 Acq On : 3 Oct 2019 18:40
 Operator : JC/SP
 Sample : K5095-04 200X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COMPOSITE-4

Quant Time: Oct 04 04:16:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	349259	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	586693	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	500418	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	196589	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	257511	50.45	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.90%	
35) Dibromofluoromethane	7.57	113	186764	51.94	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.88%	
50) Toluene-d8	10.08	98	726356	51.57	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.14%	
62) 4-Bromofluorobenzene	12.41	95	230232	45.20	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	90.40%	

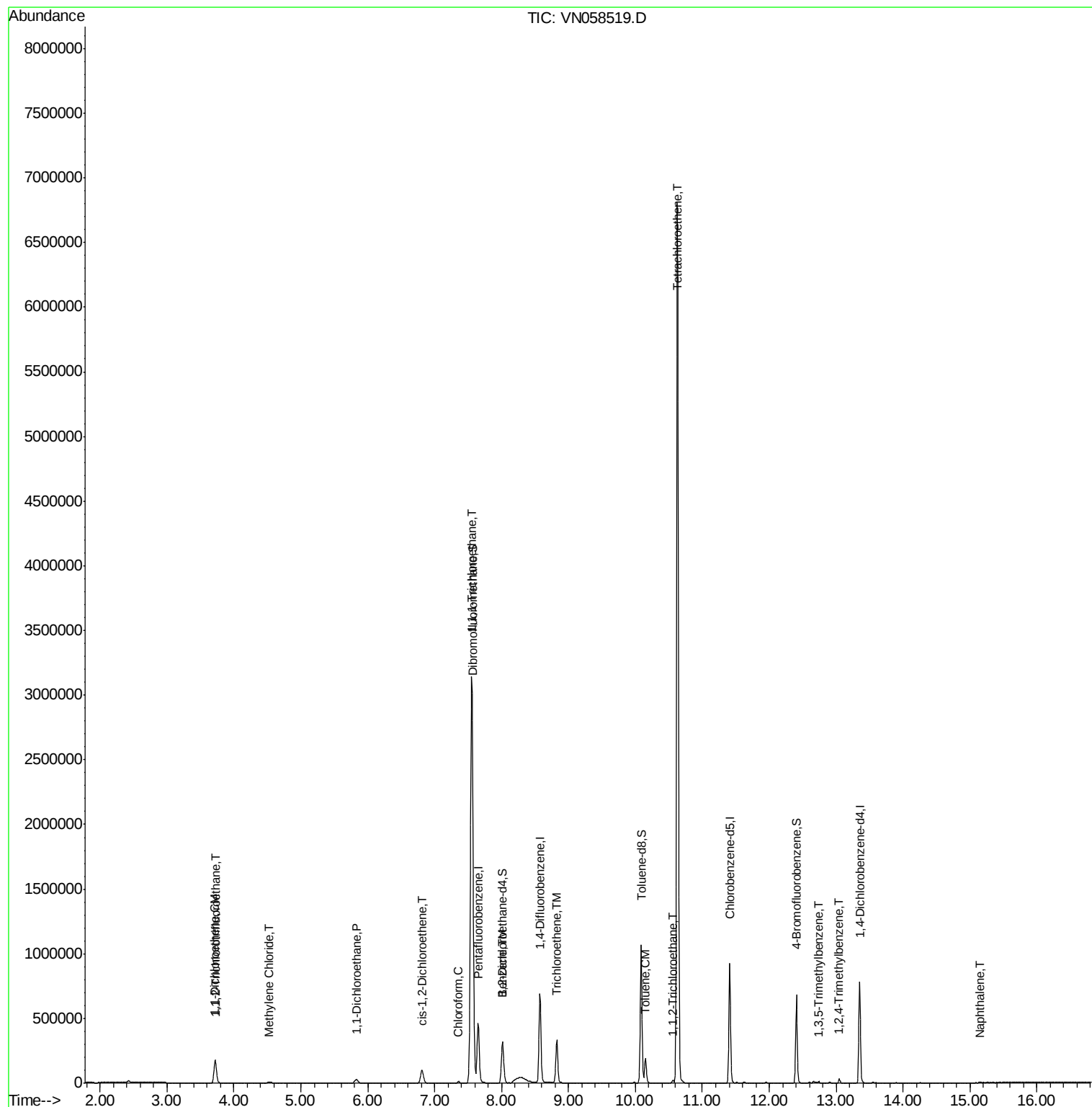
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.73	101	9028	2.671	ug/l	97
12) 1,1-Dichloroethene	3.72	96	81071	24.606	ug/l	98
20) Methylene Chloride	4.53	84	7243	1.804	ug/l #	93
24) 1,1-Dichloroethane	5.83	63	47509	6.543	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	58766	13.724	ug/l	93
30) Chloroform	7.36	83	11299	1.536	ug/l	95
32) 1,1,1-Trichloroethane	7.55	97	2503822	414.360	ug/l	99
40) Benzene	8.03	78	46684	2.895	ug/l	95
44) Trichloroethene	8.82	130	114199	28.681	ug/l	95
52) Toluene	10.15	92	80076	7.889	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	6340	1.715	ug/l	96
64) Tetrachloroethene	10.63	164	1474382	463.742	ug/l	98
80) 1,3,5-Trimethylbenzene	12.74	105	5939	0.488	ug/l	97
84) 1,2,4-Trimethylbenzene	13.05	105	17236	1.415	ug/l	99
95) Naphthalene	15.14	128	4755	0.466	ug/l #	93

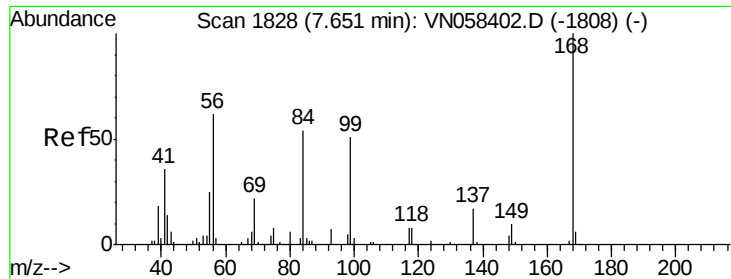
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058519.D

Acq: 3 Oct 2019 18:40

Instrument :

MSVOA_N

ClientSampleId :

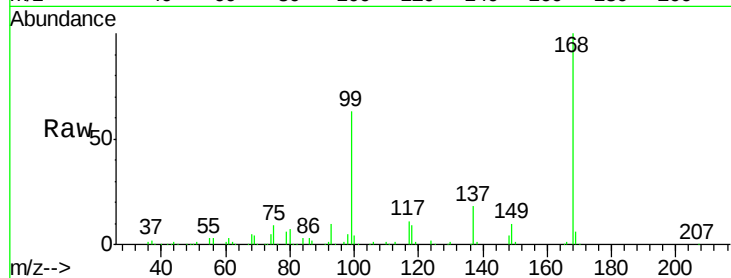
COMPOSITE-4

Tot Ion:168 Resp: 349259

Ion Ratio Lower Upper

168 100

99 63.0 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

600000

400000

200000

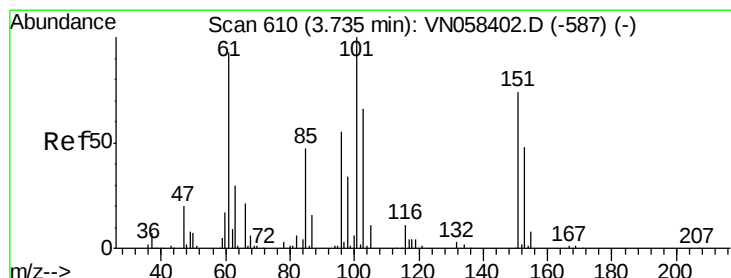
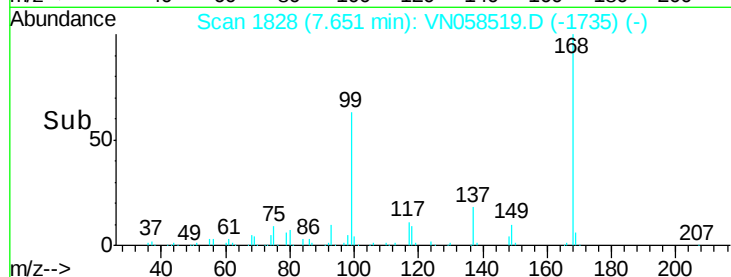
0

7.60

7.65

7.70

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.671 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN058519.D

Acq: 3 Oct 2019 18:40

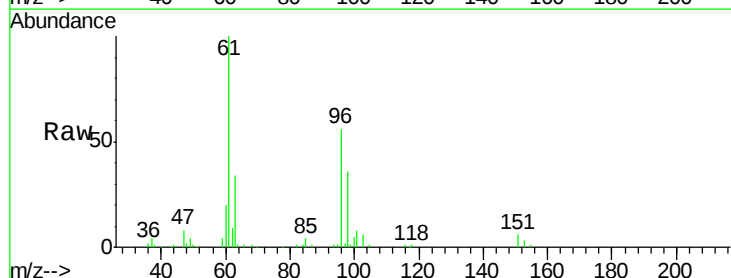
Tgt Ion:101 Resp: 9028

Ion Ratio Lower Upper

101 100

85 47.1 36.7 55.1

151 71.3 59.4 89.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

4000

3000

2000

1000

0

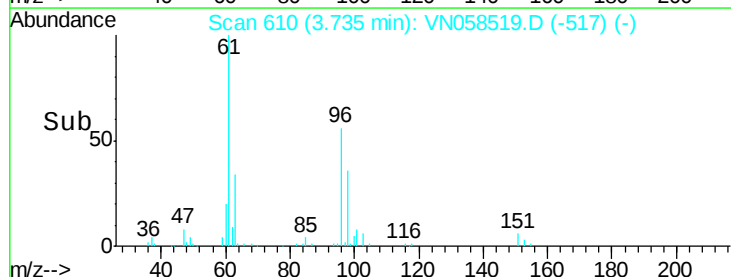
3.65

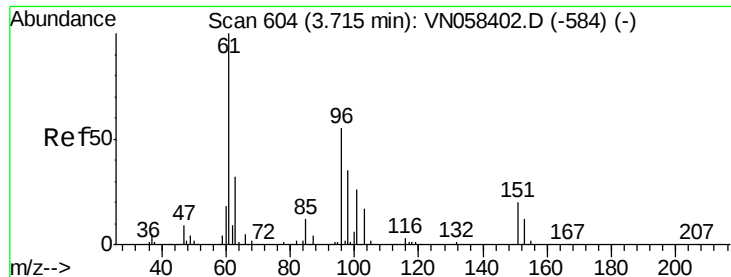
3.70

3.75

3.80

Time-->





#12

1,1-Dichloroethene

Concen: 24.606 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN058519.D

Acq: 3 Oct 2019 18:40

Instrument :

MSVOA_N

ClientSampleId :

COMPOSITE-4

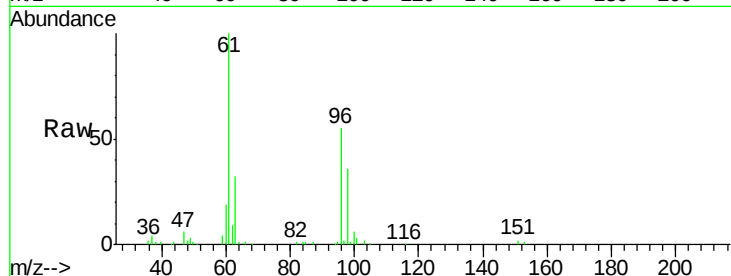
Tot Ion: 96 Resp: 81071

Ion Ratio Lower Upper

96 100

61 179.9 146.7 220.1

98 64.9 51.3 76.9

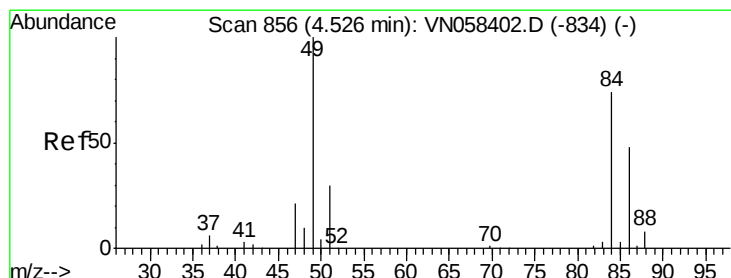
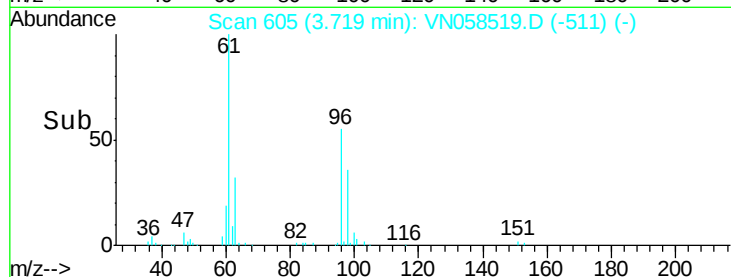
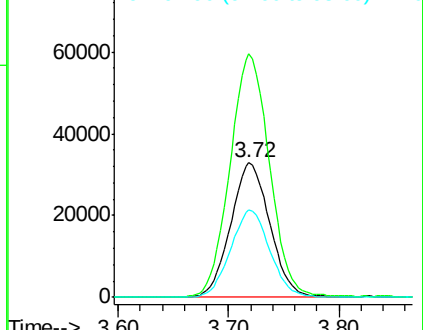


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#20

Methylene Chloride

Concen: 1.804 ug/l

RT: 4.53 min Scan# 856

Delta R.T. -0.00 min

Lab File: VN058519.D

Acq: 3 Oct 2019 18:40

Tgt Ion: 84 Resp: 7243

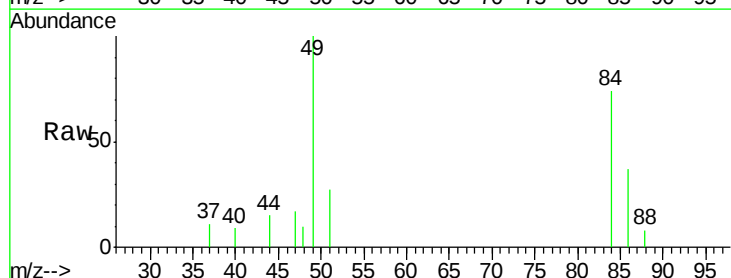
Ion Ratio Lower Upper

84 100

49 134.3 107.9 161.9

51 36.6 32.8 49.2

86 49.1 51.5 77.3#



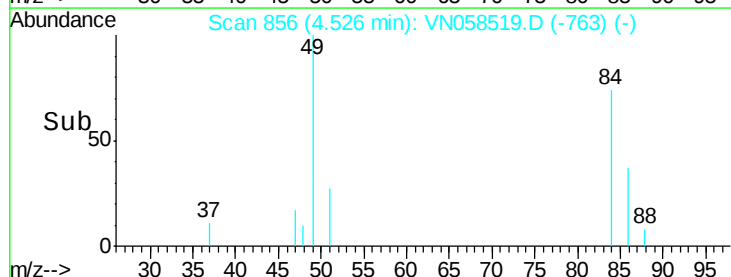
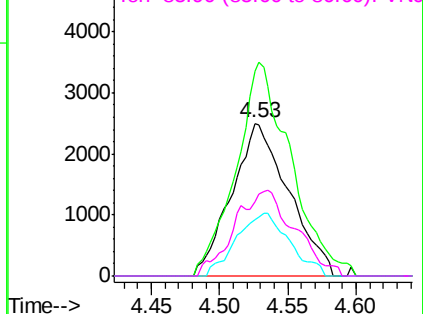
Abundance

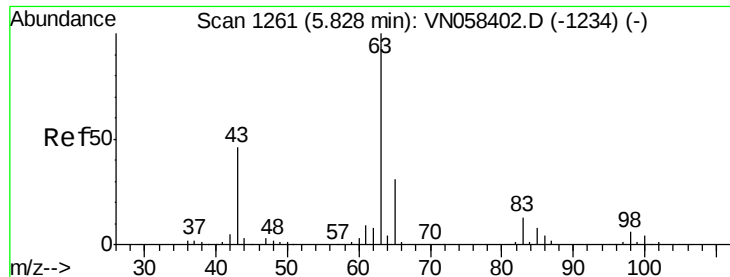
Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO





#24

1,1-Dichloroethane

Concen: 6.543 ug/l

RT: 5.83 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VN058519.D

Acq: 3 Oct 2019 18:40

Instrument :

MSVOA_N

ClientSampleId :

COMPOSITE-4

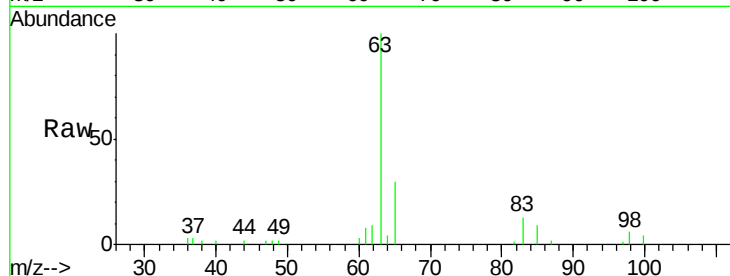
Tot Ion: 63 Resp: 47509

Ion Ratio Lower Upper

63 100

98 5.8 3.0 9.0

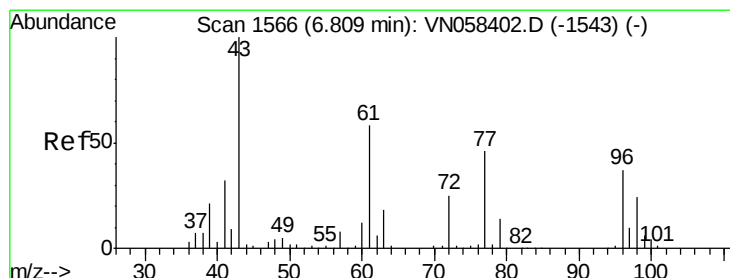
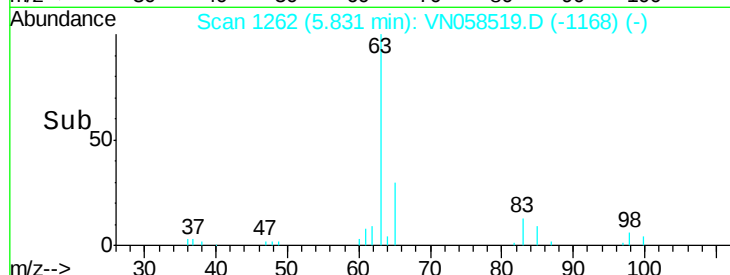
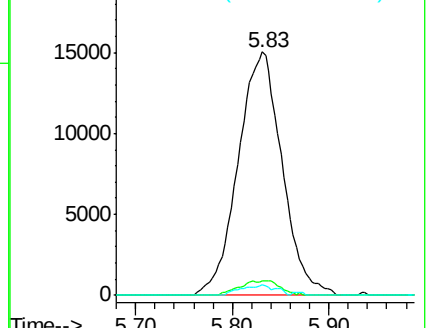
100 4.3 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN058402.D (-1234) (-)

Ion 97.90 (97.60 to 98.60): VN058402.D (-1234) (-)

Ion 99.90 (99.60 to 100.60): VN058402.D (-1234) (-)



#27

cis-1,2-Dichloroethene

Concen: 13.724 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VN058519.D

Acq: 3 Oct 2019 18:40

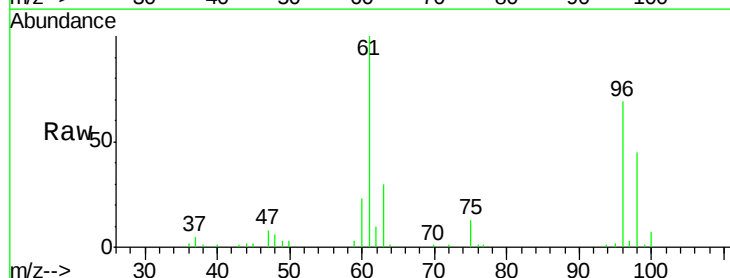
Tgt Ion: 96 Resp: 58766

Ion Ratio Lower Upper

96 100

61 146.4 0.0 318.8

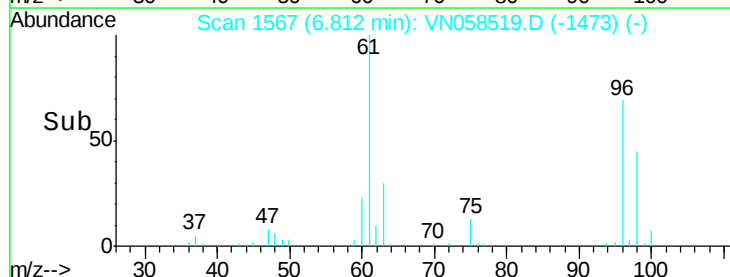
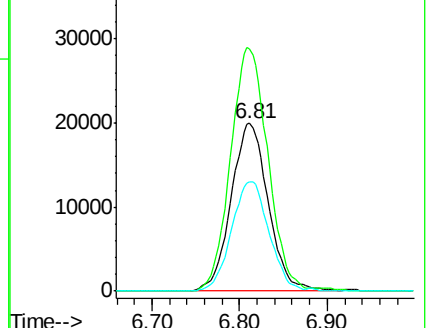
98 66.0 0.0 129.8

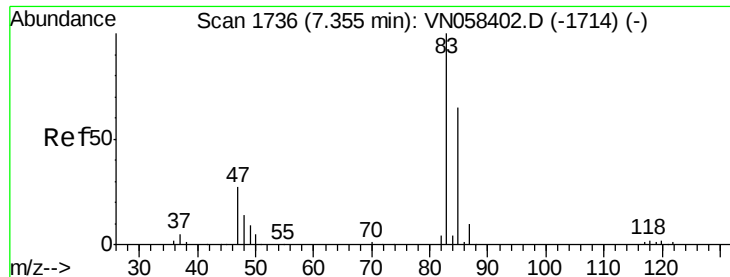


Abundance Ion 95.90 (95.60 to 96.60): VN058402.D (-1543) (-)

Ion 60.90 (60.60 to 61.60): VN058402.D (-1543) (-)

Ion 97.90 (97.60 to 98.60): VN058402.D (-1543) (-)

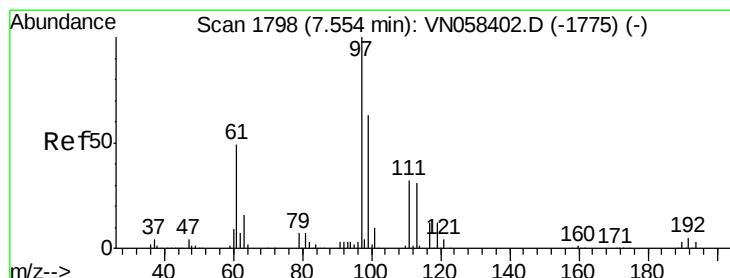
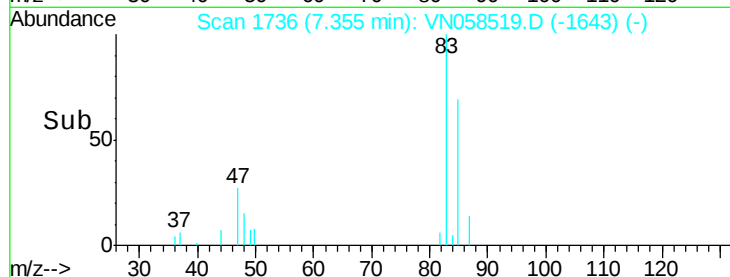
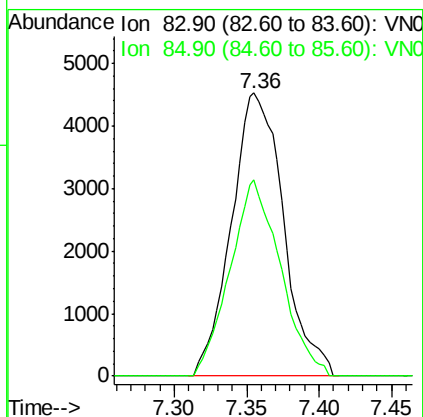
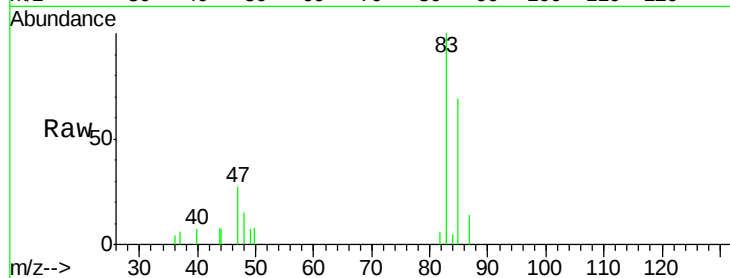




#30
 Chloroform
 Concen: 1.536 ug/l
 RT: 7.36 min Scan# 1736
 Delta R.T. -0.00 min
 Lab File: VN058519.D
 Acq: 3 Oct 2019 18:40

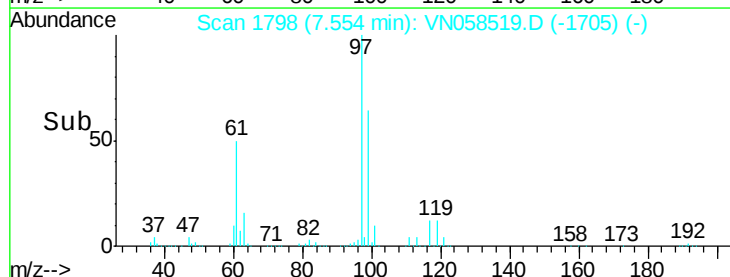
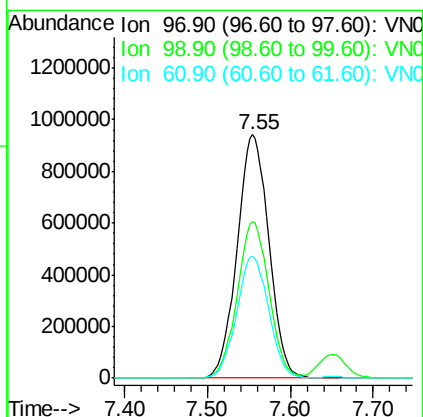
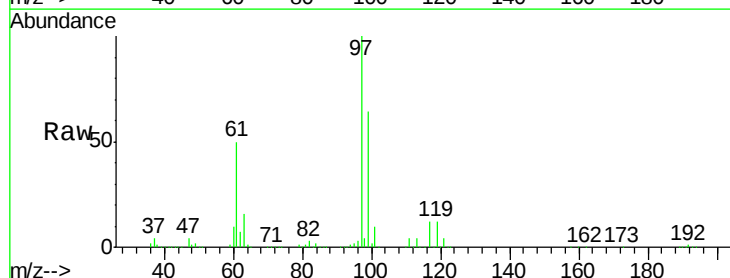
Instrument :
 MSVOA_N
 ClientSampleId :
 COMPOSITE-4

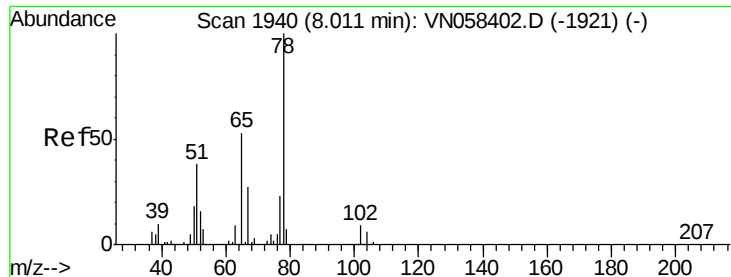
Tot Ion: 83 Resp: 11299
 Ion Ratio Lower Upper
 83 100
 85 69.1 52.0 78.0



#32
 1,1,1-Trichloroethane
 Concen: 414.360 ug/l
 RT: 7.55 min Scan# 1798
 Delta R.T. -0.00 min
 Lab File: VN058519.D
 Acq: 3 Oct 2019 18:40

Tgt Ion: 97 Resp: 2503822
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.1 76.7
 61 50.5 39.2 58.8





#33

1,2-Dichloroethane-d4

Concen: 50.454 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058519.D

Acq: 3 Oct 2019 18:40

Instrument :

MSVOA_N

ClientSampleId :

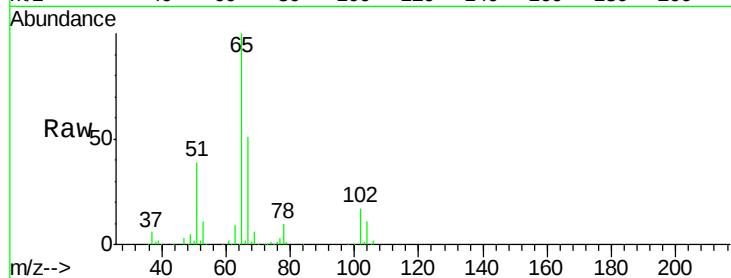
COMPOSITE-4

Tot Ion: 65 Resp: 257511

Ion Ratio Lower Upper

65 100

67 50.8 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN058402.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN058402.D (-1921) (-)

8.01

120000

100000

80000

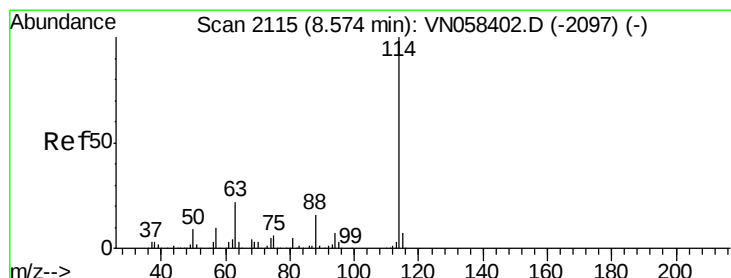
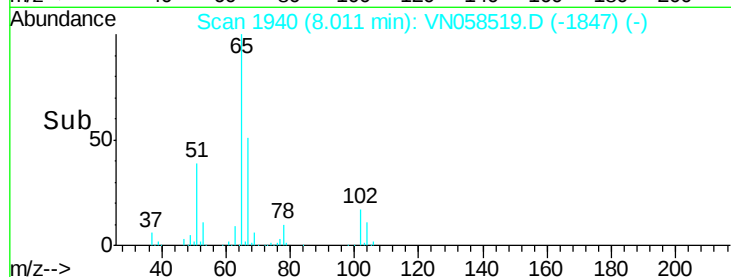
60000

40000

20000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058519.D

Acq: 3 Oct 2019 18:40

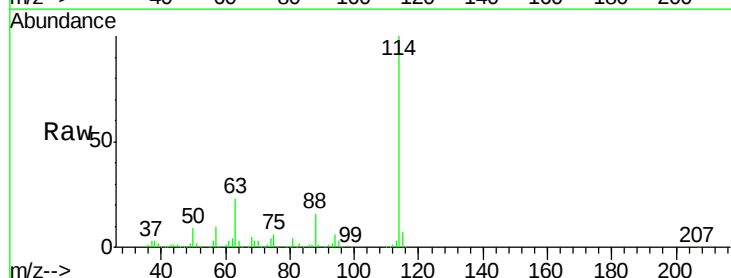
Tgt Ion: 114 Resp: 586693

Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.0

88 16.0 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): VN058402.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN058402.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN058402.D (-2097) (-)

8.57

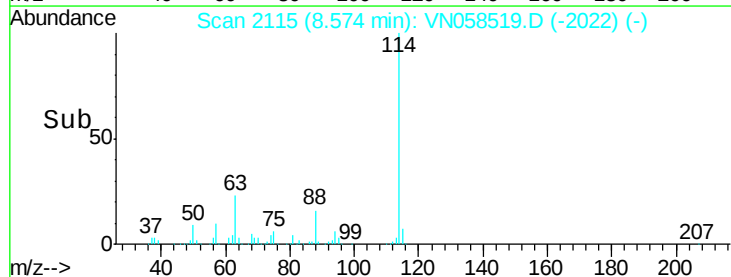
300000

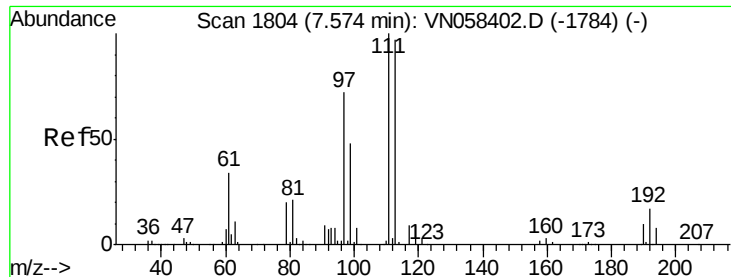
200000

100000

0

Time--> 8.50 8.60 8.70 8.80

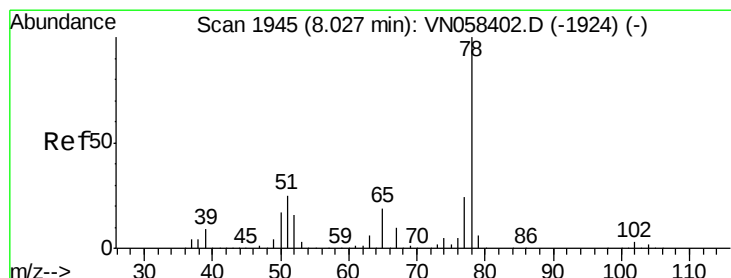
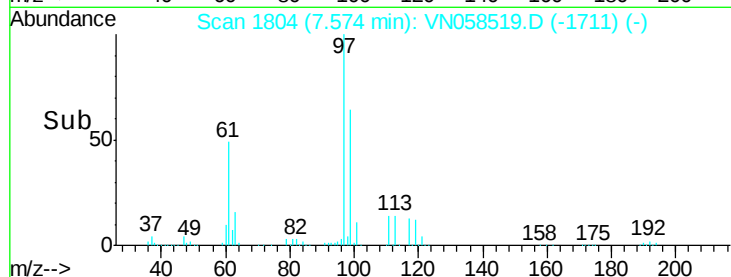
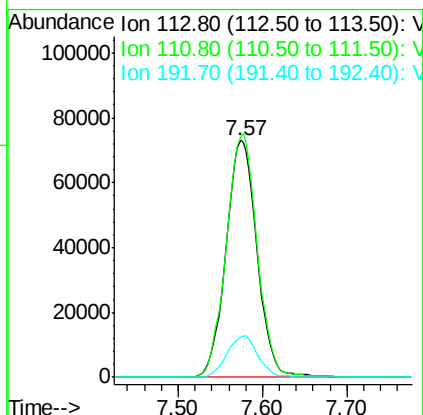
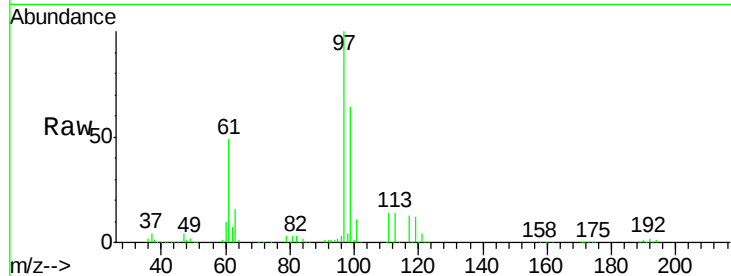




#35
 Dibromofluoromethane
 Concen: 51.940 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058519.D
 Acq: 3 Oct 2019 18:40

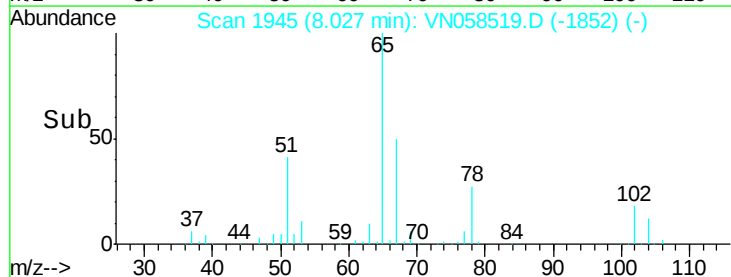
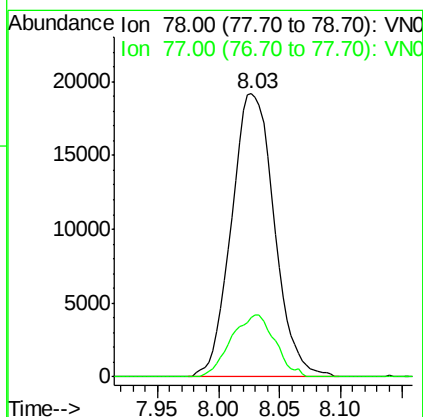
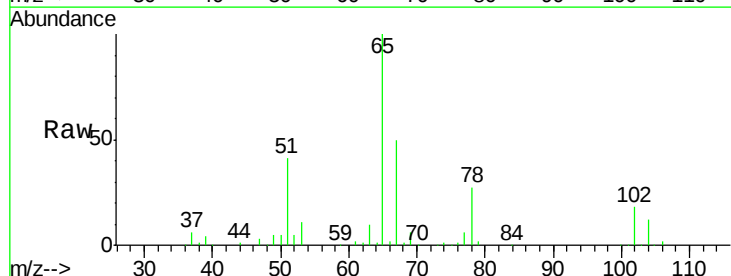
Instrument :
 MSVOA_N
 ClientSampleId :
 COMPOSITE-4

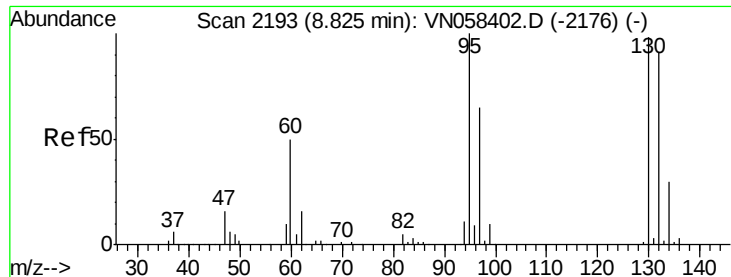
Tot Ion:113 Resp: 186764
 Ion Ratio Lower Upper
 113 100
 111 102.9 83.4 125.2
 192 17.5 14.9 22.3



#40
 Benzene
 Concen: 2.895 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN058519.D
 Acq: 3 Oct 2019 18:40

Tgt Ion: 78 Resp: 46684
 Ion Ratio Lower Upper
 78 100
 77 21.0 18.9 28.3





#44

Trichloroethene

Concen: 28.681 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058519.D

Acq: 3 Oct 2019 18:40

Instrument :

MSVOA_N

ClientSampleId :

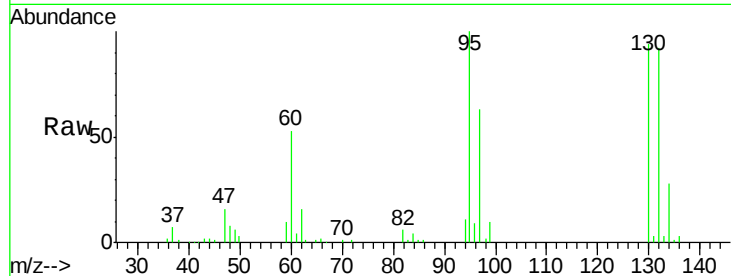
COMPOSITE-4

Tot Ion:130 Resp: 114199

Ion Ratio Lower Upper

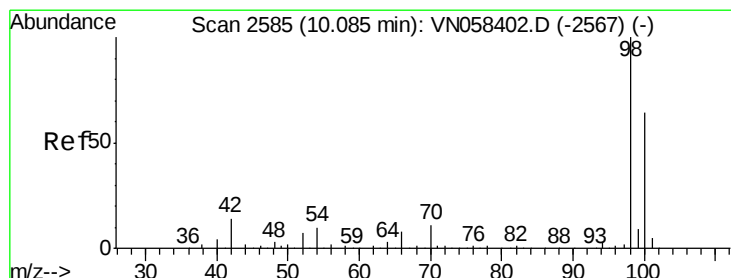
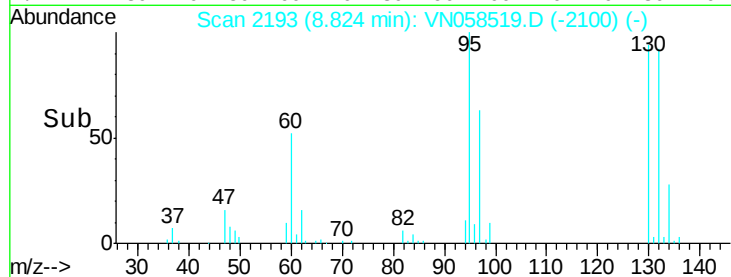
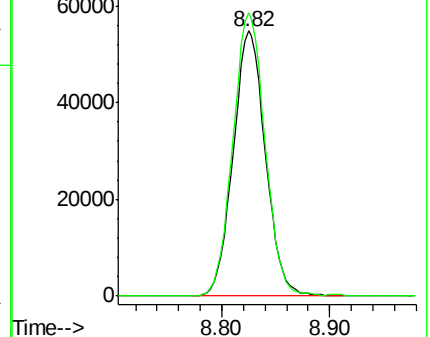
130 100

95 106.7 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): VN058402.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN058402.D (-2176) (-)



#50

Toluene-d8

Concen: 51.565 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058519.D

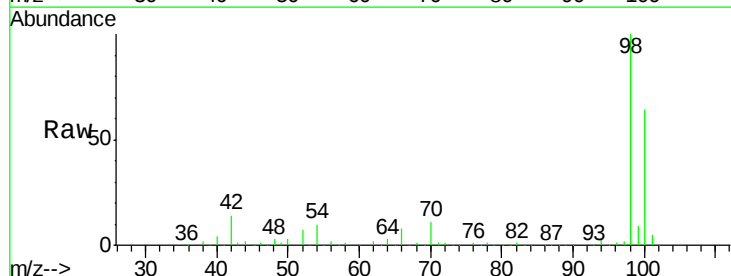
Acq: 3 Oct 2019 18:40

Tgt Ion: 98 Resp: 726356

Ion Ratio Lower Upper

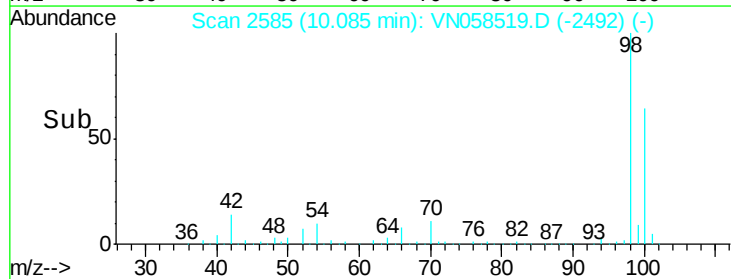
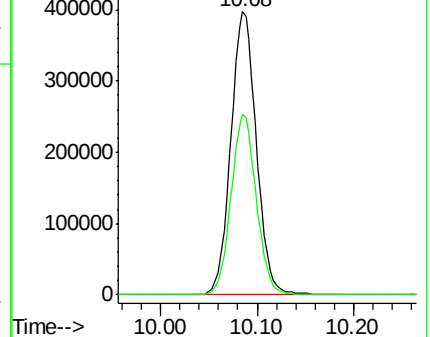
98 100

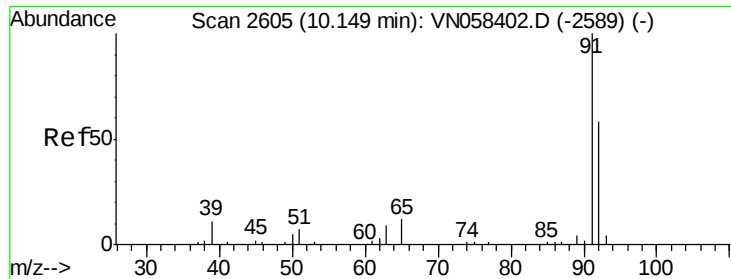
100 63.1 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN058402.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN058402.D (-2567) (-)





#52

Toluene

Concen: 7.889 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058519.D

Acq: 3 Oct 2019 18:40

Instrument :

MSVOA_N

ClientSampled :

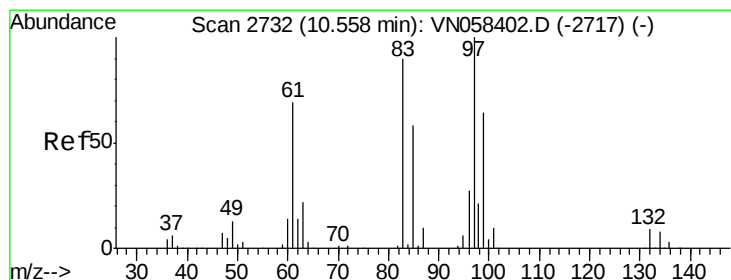
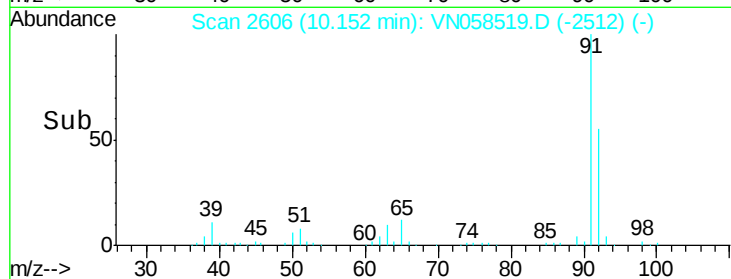
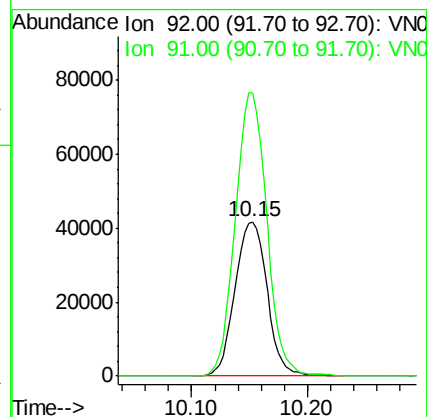
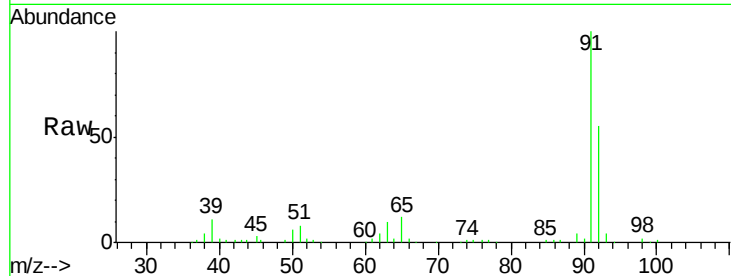
COMPOSITE-4

Tot Ion: 92 Resp: 80076

Ion Ratio Lower Upper

92 100

91 179.1 140.2 210.4



#55

1,1,2-Trichloroethane

Concen: 1.715 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN058519.D

Acq: 3 Oct 2019 18:40

Tgt Ion: 97 Resp: 6340

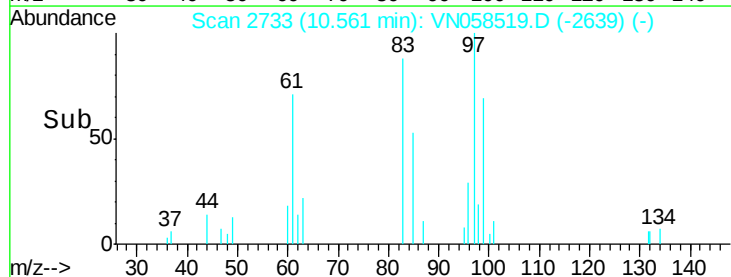
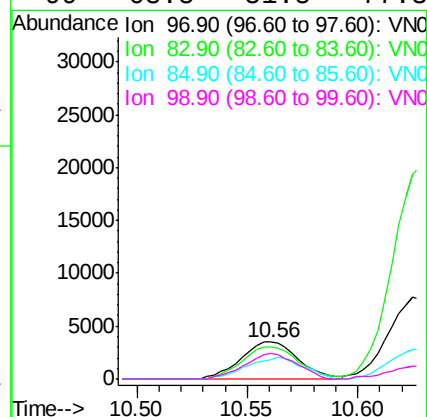
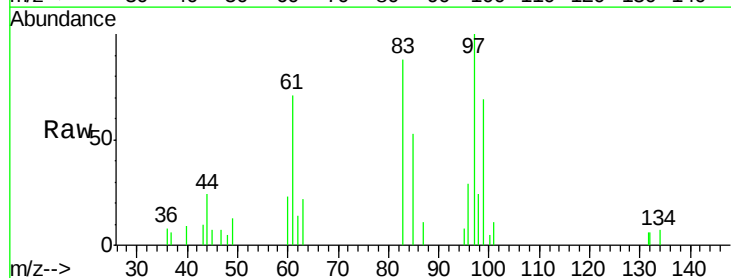
Ion Ratio Lower Upper

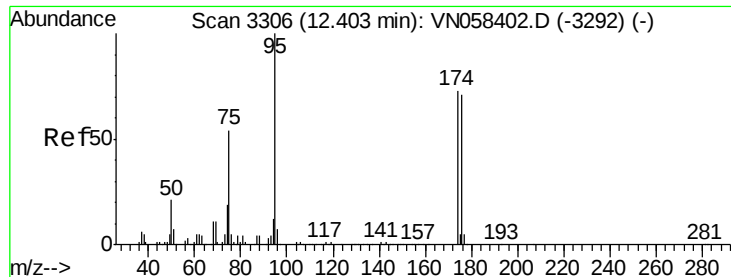
97 100

83 87.6 71.8 107.6

85 53.2 46.6 69.8

99 68.5 51.5 77.3

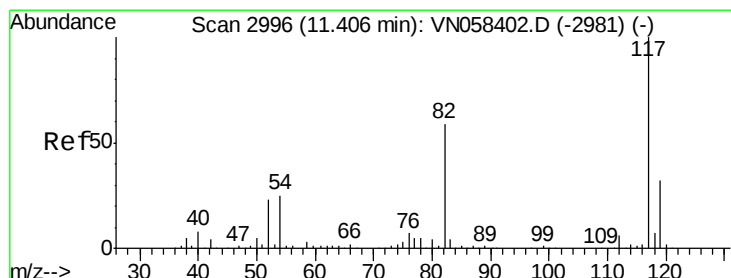
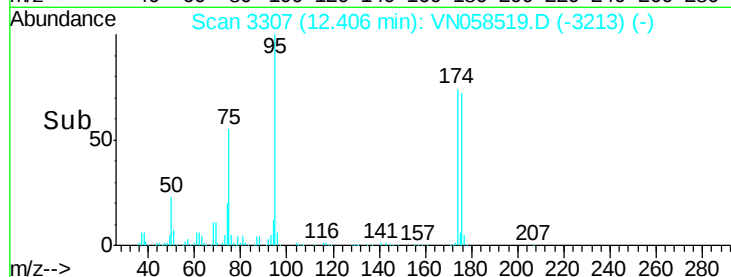
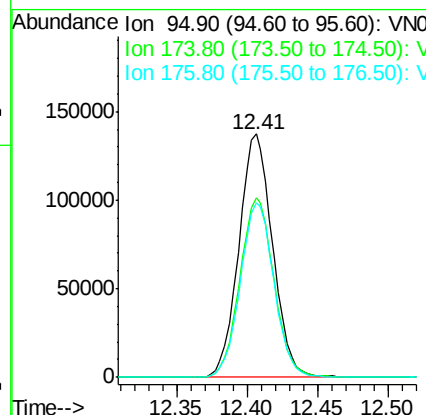
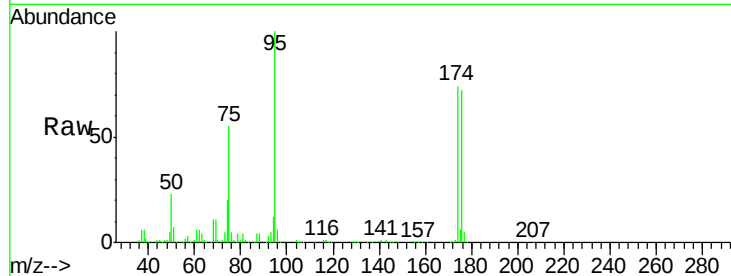




#62
4-Bromofluorobenzene
Concen: 45.203 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058519.D
Acq: 3 Oct 2019 18:40

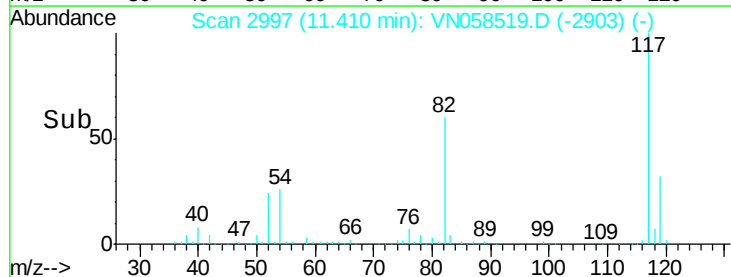
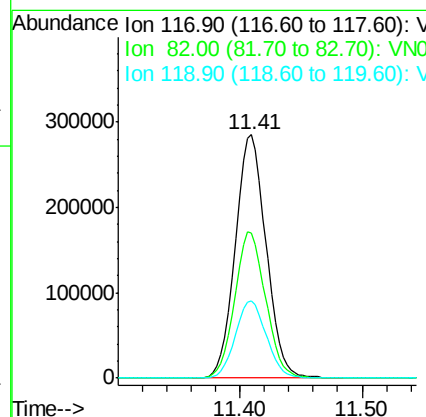
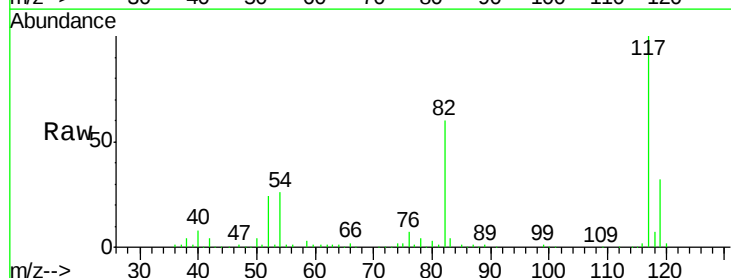
Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-4

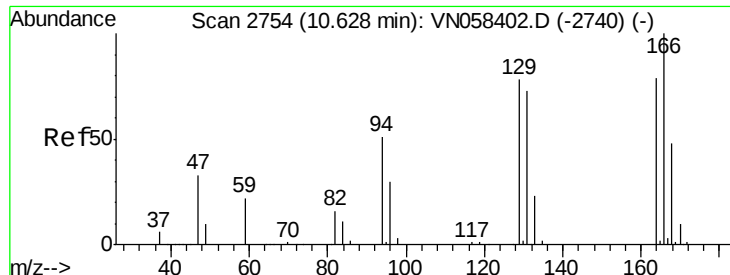
Tot Ion: 95 Resp: 230232
Ion Ratio Lower Upper
95 100
174 74.8 0.0 150.6
176 71.6 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058519.D
Acq: 3 Oct 2019 18:40

Tgt Ion: 117 Resp: 500418
Ion Ratio Lower Upper
117 100
82 59.8 47.4 71.0
119 31.8 25.5 38.3





#64

Tetrachloroethene

Concen: 463.742 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN058519.D

Acq: 3 Oct 2019 18:40

Instrument :

MSVOA_N

ClientSampleId :

COMPOSITE-4

Tot Ion:164 Resp: 1474382

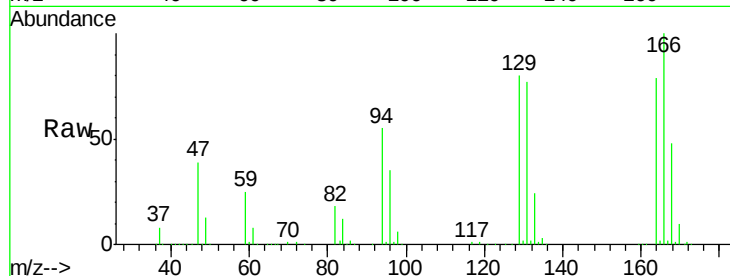
Ion Ratio Lower Upper

164 100

166 126.4 101.1 151.7

129 100.6 79.2 118.8

131 97.6 74.1 111.1

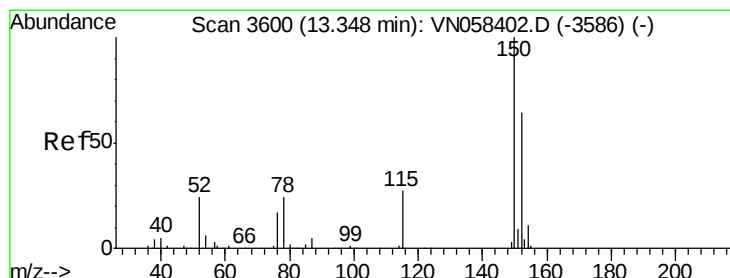
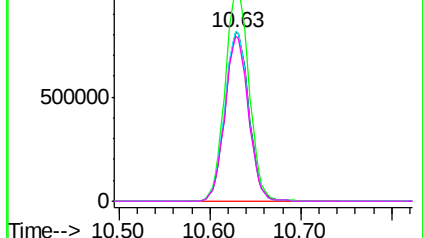
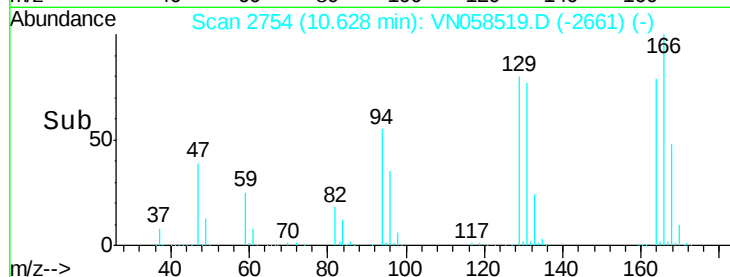


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058519.D

Acq: 3 Oct 2019 18:40

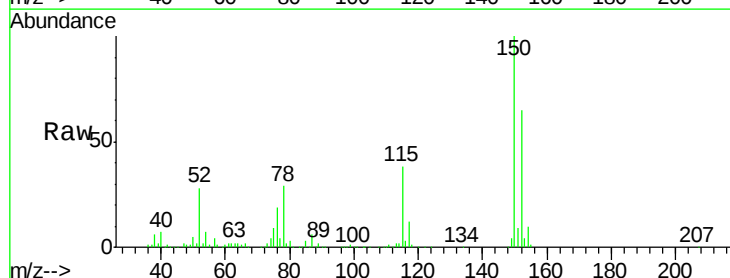
Tgt Ion:152 Resp: 196589

Ion Ratio Lower Upper

152 100

115 62.1 30.0 90.0

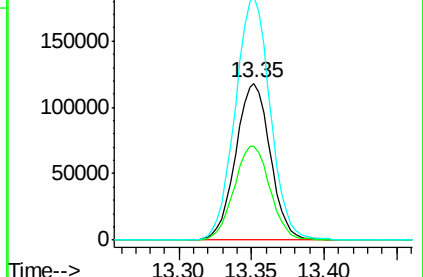
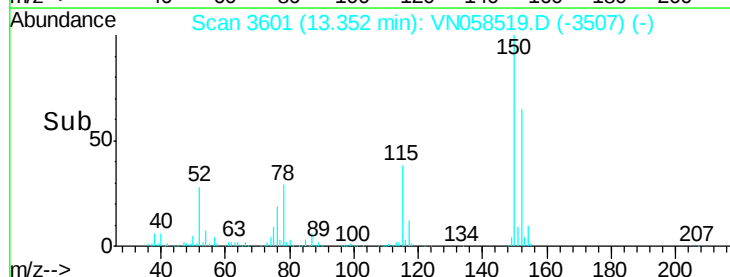
150 156.4 0.0 348.2

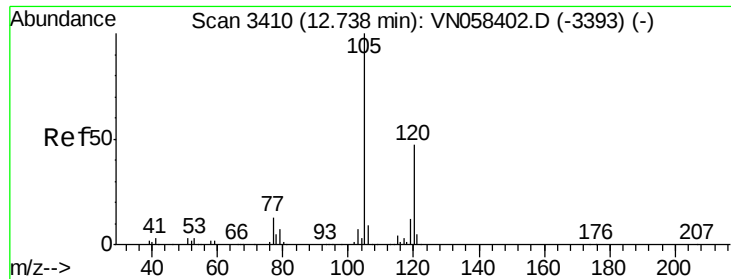


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

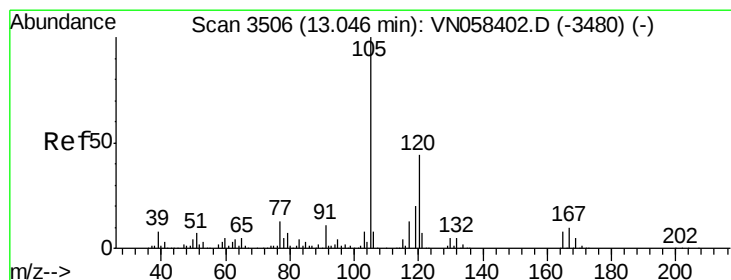
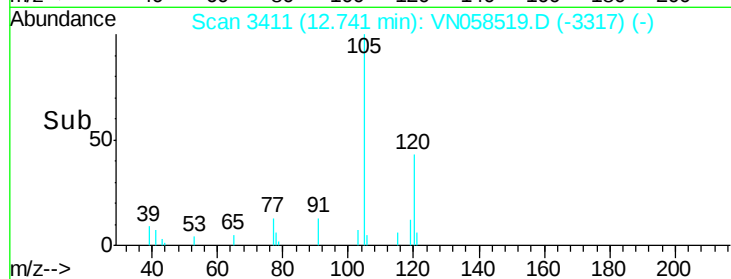
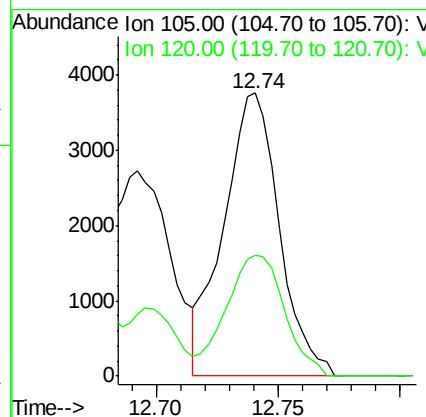
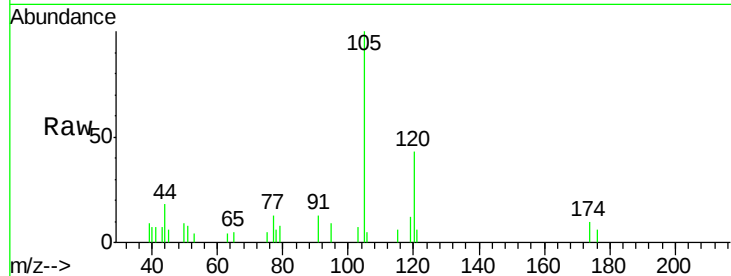




#80
 1,3,5-Trimethylbenzene
 Concen: 0.488 ug/l
 RT: 12.74 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN058519.D
 Acq: 3 Oct 2019 18:40

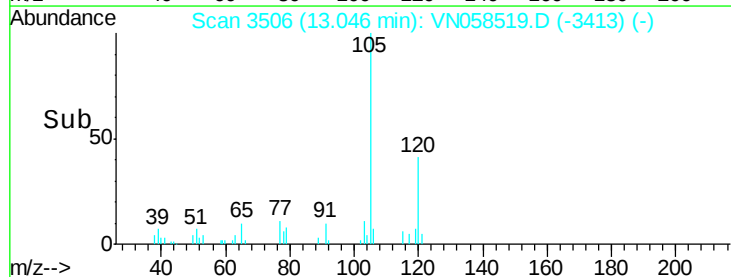
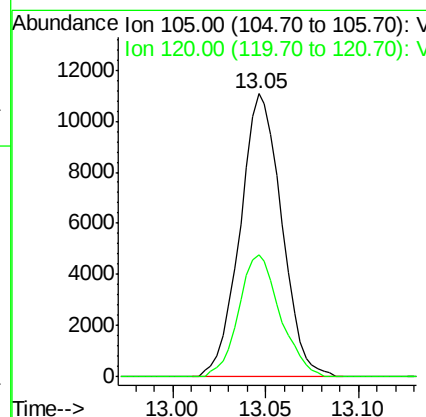
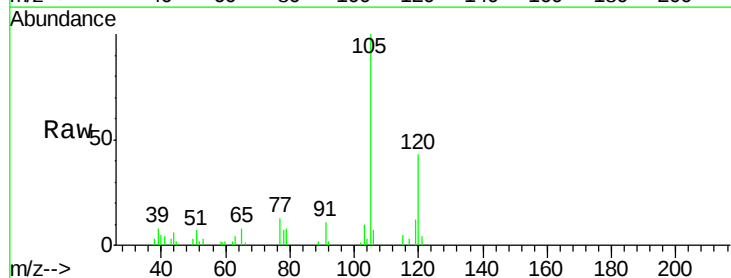
Instrument :
 MSVOA_N
 ClientSampled :
 COMPOSITE-4

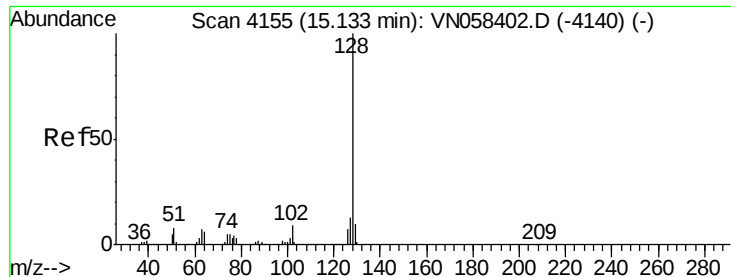
Tot Ion:105 Resp: 5939
 Ion Ratio Lower Upper
 105 100
 120 45.2 23.5 70.6



#84
 1,2,4-Trimethylbenzene
 Concen: 1.415 ug/l
 RT: 13.05 min Scan# 3506
 Delta R.T. -0.00 min
 Lab File: VN058519.D
 Acq: 3 Oct 2019 18:40

Tgt Ion:105 Resp: 17236
 Ion Ratio Lower Upper
 105 100
 120 43.1 21.7 65.1

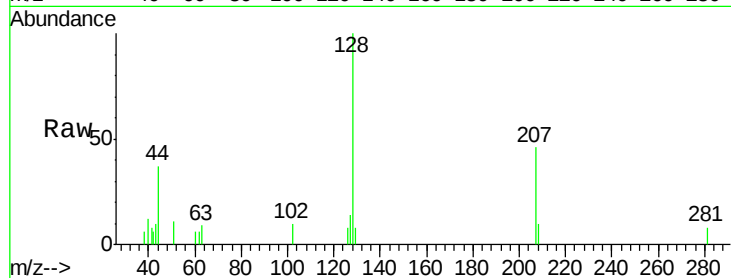




#95
Naphthalene
Concen: 0.466 ug/l
RT: 15.14 min Scan# 4158
Delta R.T. 0.01 min
Lab File: VN058519.D
Acq: 3 Oct 2019 18:40

Instrument :
MSVOA_N
ClientSampleId :
COMPOSITE-4

Tot Ion:128 Resp: 4755
Ion Ratio Lower Upper
128 100
127 9.5 10.2 15.4#
129 8.0 8.3 12.5#



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

