

Data File : VN057767.D
Acq On : 7 Sep 2019 20:15
Operator : JC/SP
Sample : K4601-22
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
T12-E1-(0)

Quant Time: Sep 08 06:39:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 03:46:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	196597	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	318709	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	297643	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	153298	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	235770	49.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.60%	
35) Dibromofluoromethane	7.57	113	146146	50.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.68%	
50) Toluene-d8	10.08	98	543874	50.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.30%	
62) 4-Bromofluorobenzene	12.40	95	202037	45.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.60%	

Target Compounds

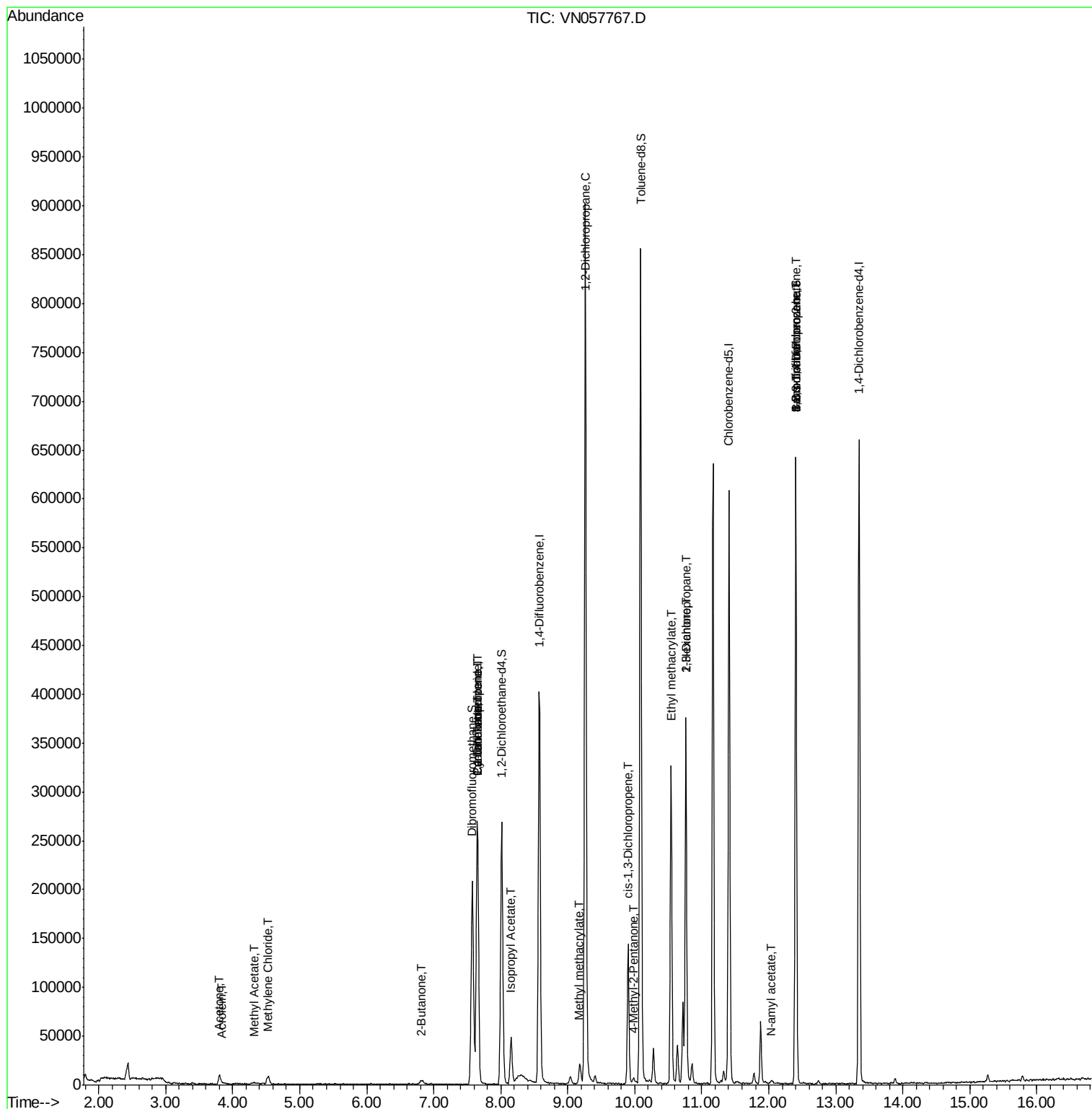
						Qvalue
3) Chloromethane	2.04	50	491	Below Cal	#	42
13) Acrolein	3.85	56	68	0.263	ug/l #	15
16) Acetone	3.80	43	14683	9.976	ug/l	94
18) Methyl Acetate	4.31	43	3331	0.832	ug/l #	67
20) Methylene Chloride	4.52	84	5406	1.699	ug/l	96
25) 2-Butanone	6.82	43	1288	0.611	ug/l #	55
31) Cyclohexane	7.65	56	6252	1.165	ug/l #	41
36) 1,1-Dichloropropene	7.65	75	19331	4.559	ug/l #	52
38) Carbon Tetrachloride	7.65	117	21614	5.324	ug/l #	17
43) Isopropyl Acetate	8.15	43	58773	7.274	ug/l	98
45) 1,2-Dichloropropane	9.26	63	1007	0.300	ug/l #	44
48) Methyl methacrylate	9.17	41	4127	0.993	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	4760	1.061	ug/l #	86
54) cis-1,3-Dichloropropene	9.90	75	21592	4.357	ug/l #	69
56) Ethyl methacrylate	10.54	69	1052	0.225	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3357	0.639	ug/l #	43
59) 2-Hexanone	10.76	43	62622	19.792	ug/l #	59
71) Bromoform	12.40	173	1019	3.714	ug/l #	1
74) N-amyl acetate	12.03	43	3170	0.468	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	122469	34.789	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	122469	108.195	ug/l #	1

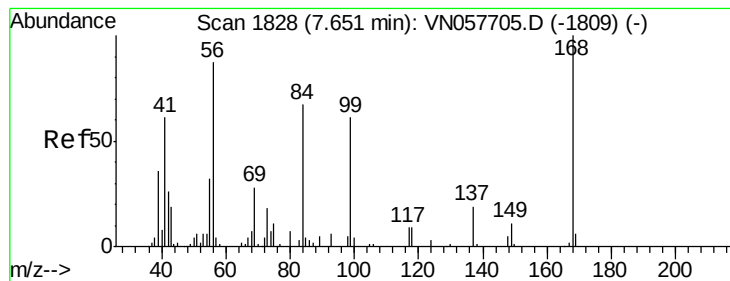
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057767.D

Acq: 7 Sep 2019 20:15

Instrument :

MSVOA_N

ClientSampleId :

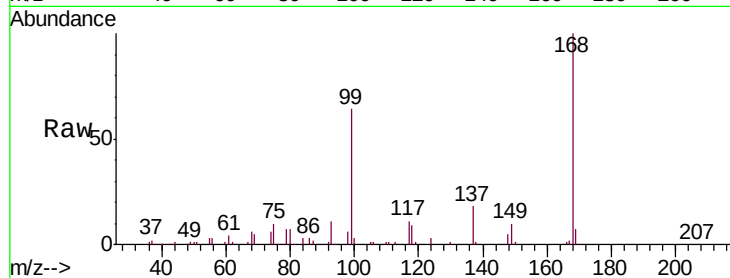
T12-E1-(0)

Tgt Ion:168 Resp: 196597

Ion Ratio Lower Upper

168 100

99 64.1 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): VN057705.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057705.D (-1809) (-)

7.65

80000

60000

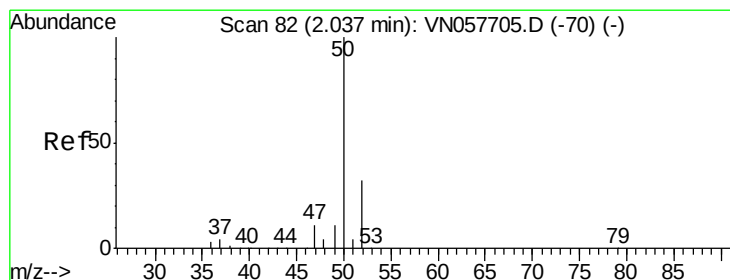
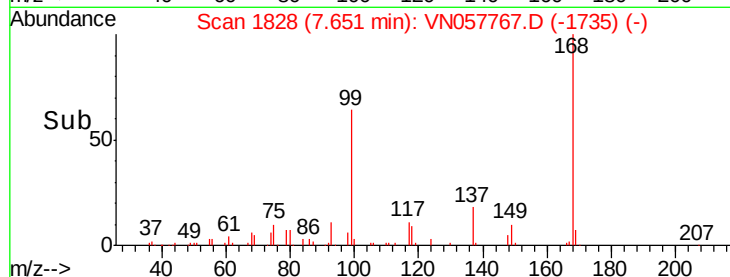
40000

20000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN057767.D

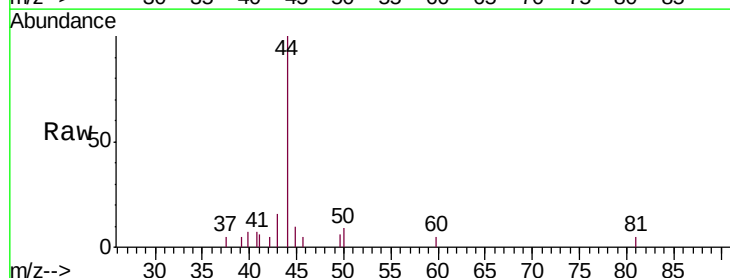
Acq: 7 Sep 2019 20:15

Tgt Ion: 50 Resp: 491

Ion Ratio Lower Upper

50 100

52 0.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN057705.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN057705.D (-70) (-)

2.04

600

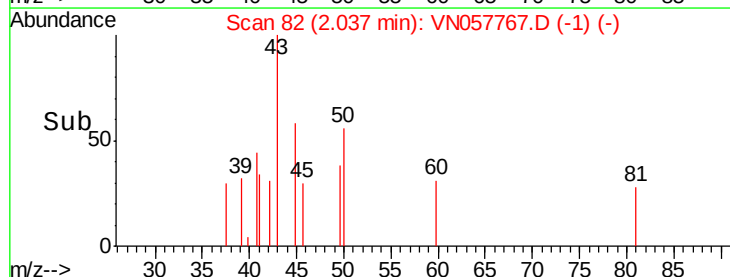
400

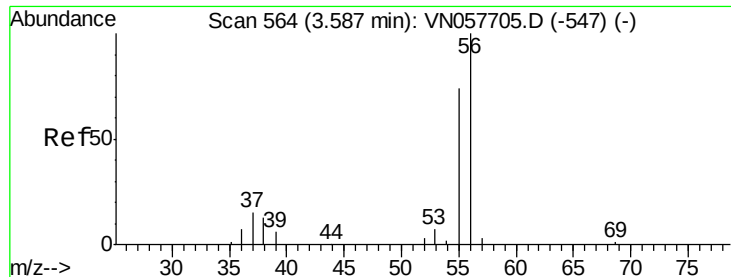
200

0

2.02 2.04 2.06

Time-->

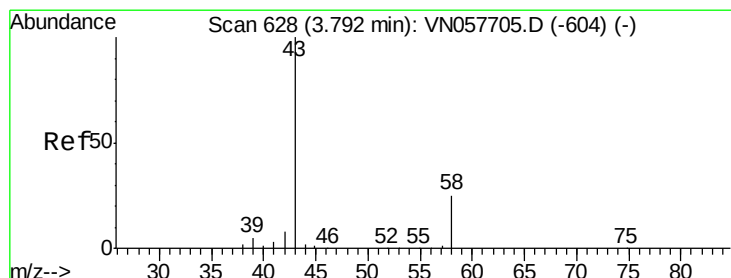
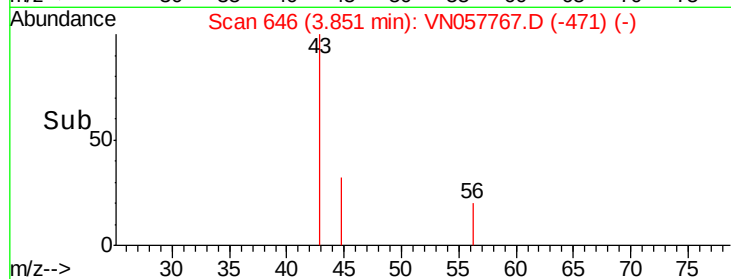
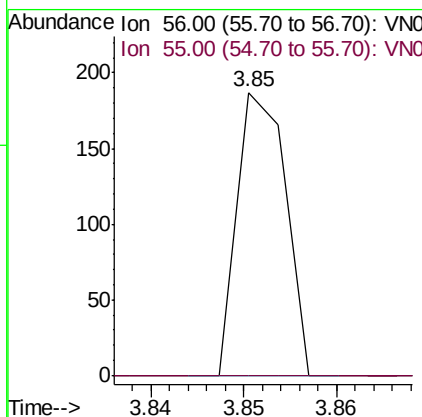
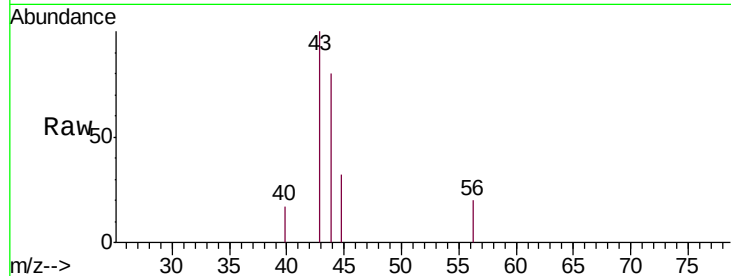




#13
Acrolein
Concen: 0.263 ug/l
RT: 3.85 min Scan# 646
Delta R.T. 0.26 min
Lab File: VN057767.D
Acq: 7 Sep 2019 20:15

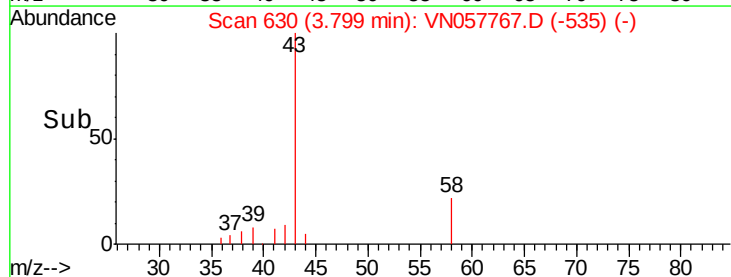
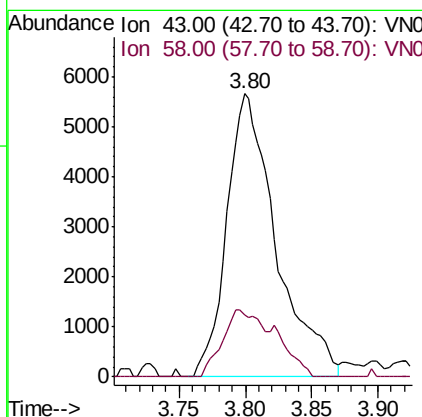
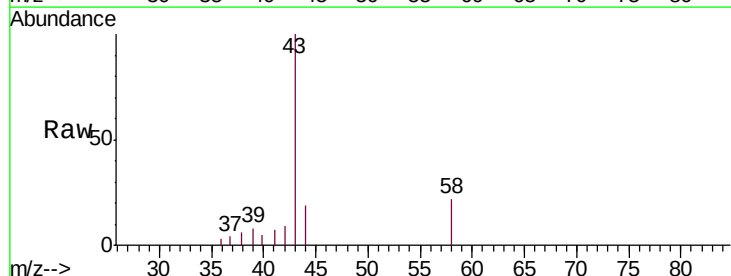
Instrument :
MSVOA_N
ClientSampleId :
T12-E1-(0)

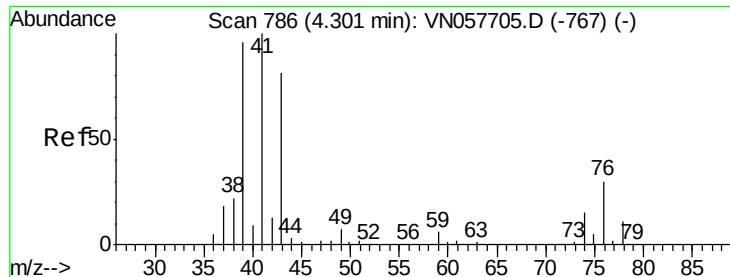
Tgt Ion: 56 Resp: 68
Ion Ratio Lower Upper
56 100
55 0.0 55.4 83.0#



#16
Acetone
Concen: 9.976 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.01 min
Lab File: VN057767.D
Acq: 7 Sep 2019 20:15

Tgt Ion: 43 Resp: 14683
Ion Ratio Lower Upper
43 100
58 21.8 19.8 29.8

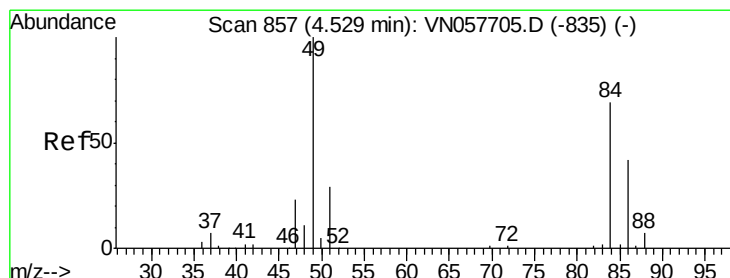
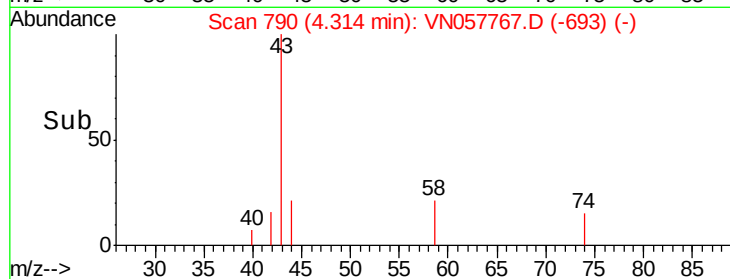
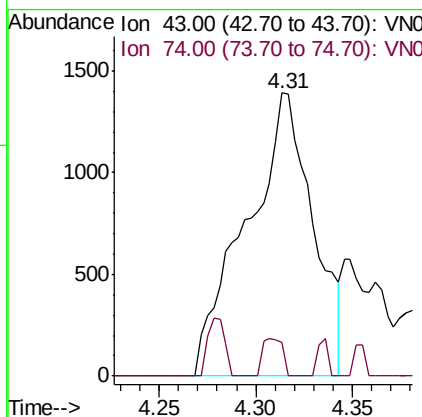
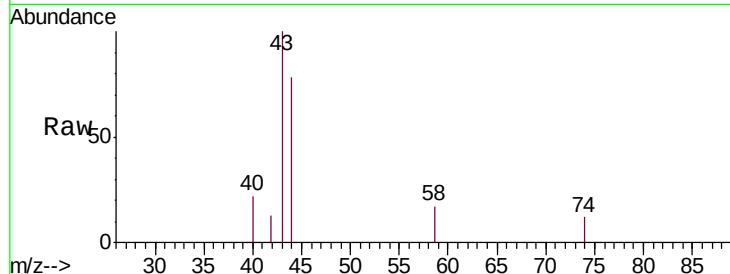




#18
Methyl Acetate
Concen: 0.832 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057767.D
Acq: 7 Sep 2019 20:15

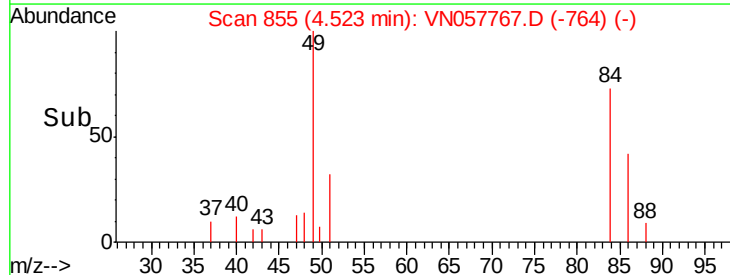
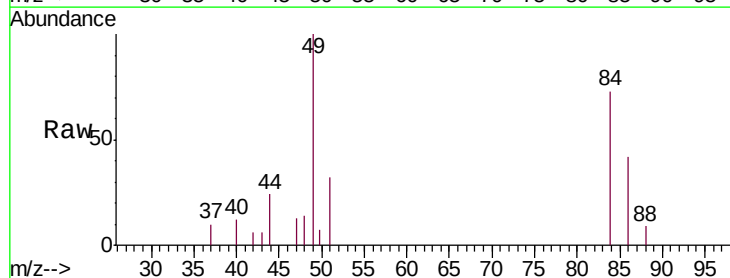
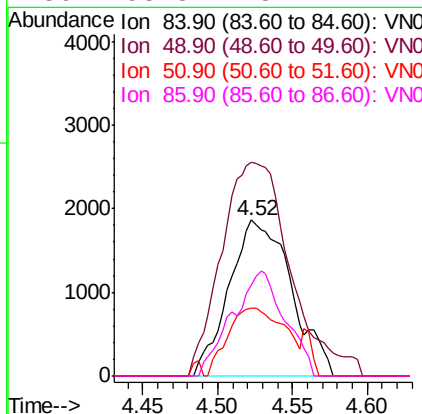
Instrument :
MSVOA_N
ClientSampleId :
T12-E1-(0)

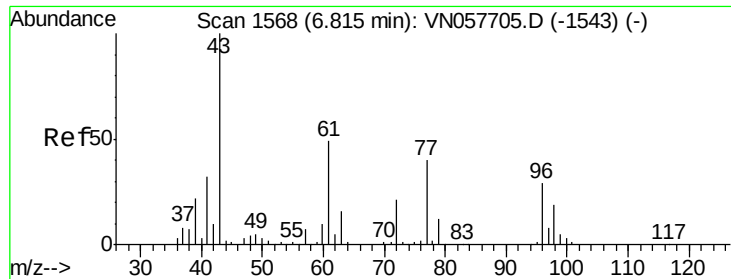
Tgt Ion: 43 Resp: 3331
Ion Ratio Lower Upper
43 100
74 4.1 15.3 22.9#



#20
Methylene Chloride
Concen: 1.699 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.01 min
Lab File: VN057767.D
Acq: 7 Sep 2019 20:15

Tgt Ion: 84 Resp: 5406
Ion Ratio Lower Upper
84 100
49 137.2 115.0 172.6
51 43.9 33.8 50.8
86 58.3 48.2 72.2





#25

2-Butanone

Concen: 0.611 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN057767.D

Acq: 7 Sep 2019 20:15

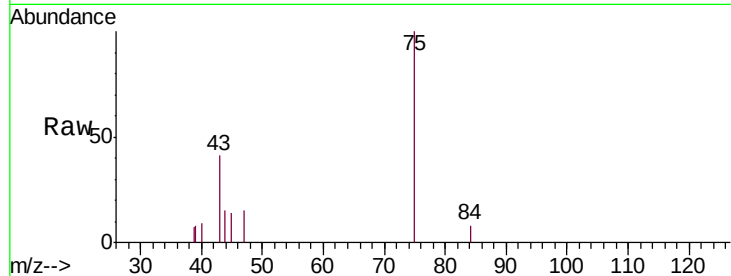
Instrument :
MSVOA_N
ClientSampled :
T12-E1-(0)

Tgt Ion: 43 Resp: 1288

Ion Ratio Lower Upper

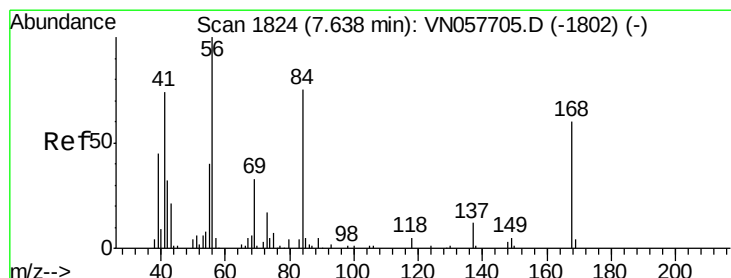
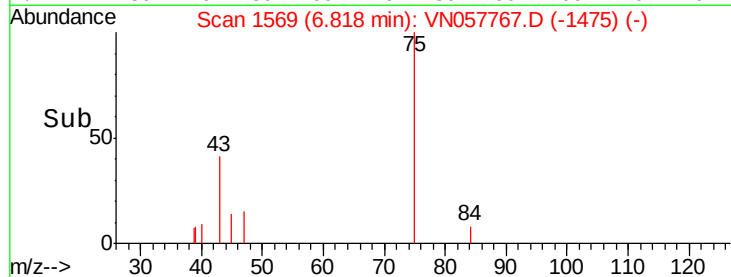
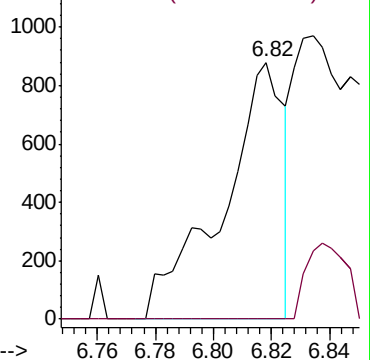
43 100

72 0.0 17.0 25.6#



Abundance Ion 43.00 (42.70 to 43.70): VN057705.D (-1543) (-)

Ion 72.00 (71.70 to 72.70): VN057705.D (-1543) (-)



#31

Cyclohexane

Concen: 1.165 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057767.D

Acq: 7 Sep 2019 20:15

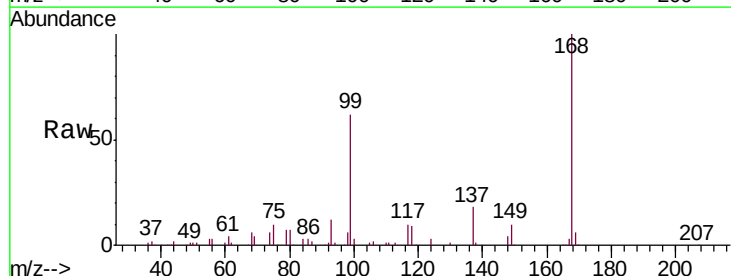
Tgt Ion: 56 Resp: 6252

Ion Ratio Lower Upper

56 100

69 129.4 26.2 39.2#

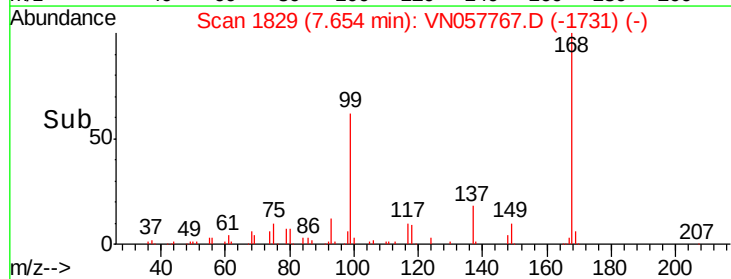
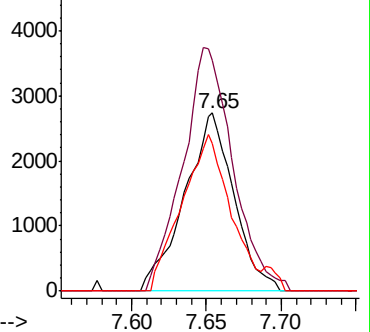
84 83.2 59.8 89.8

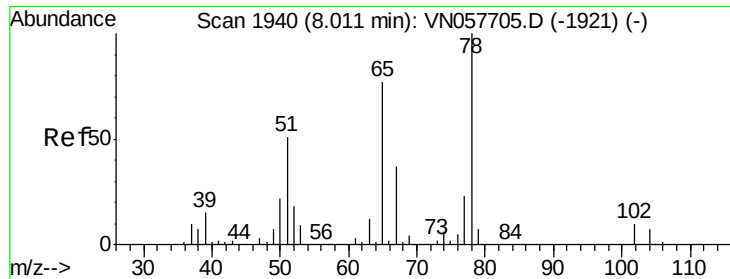


Abundance Ion 56.00 (55.70 to 56.70): VN057705.D (-1802) (-)

Ion 69.00 (68.70 to 69.70): VN057705.D (-1802) (-)

Ion 84.00 (83.70 to 84.70): VN057705.D (-1802) (-)

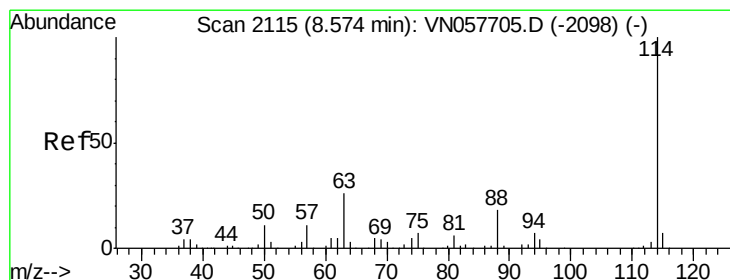
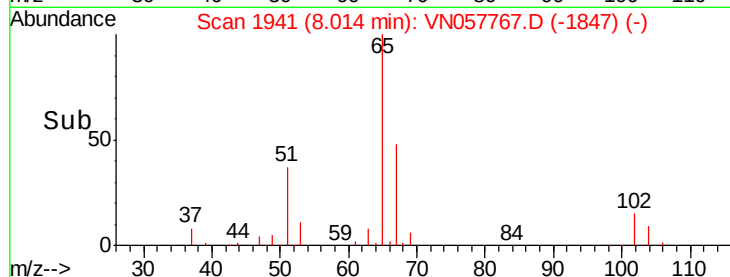
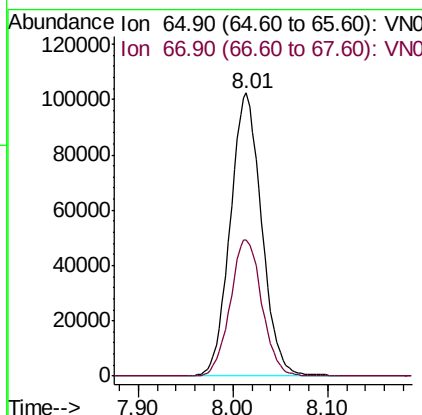
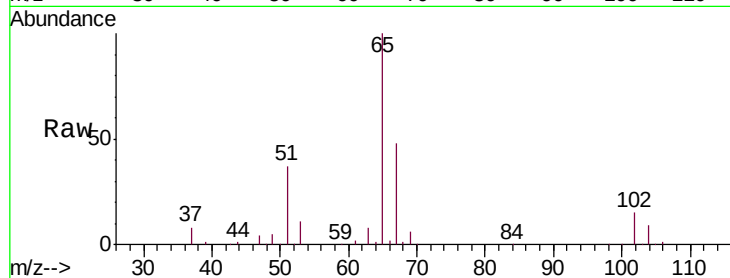




#33
 1,2-Dichloroethane-d4
 Concen: 49.297 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057767.D
 Acq: 7 Sep 2019 20:15

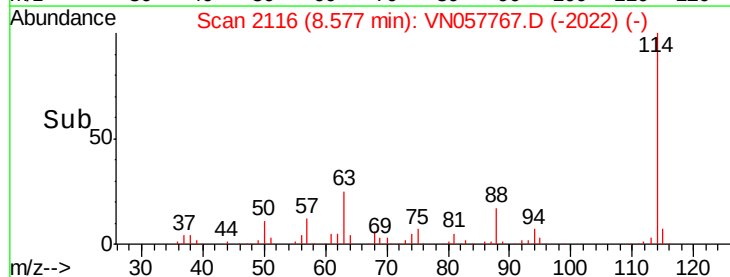
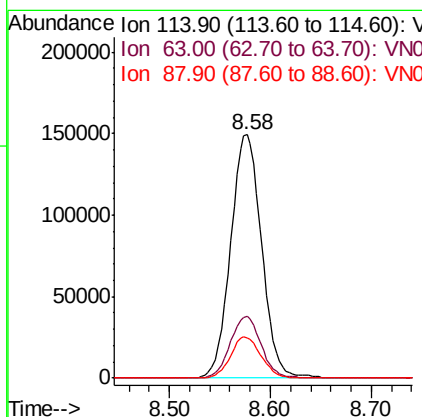
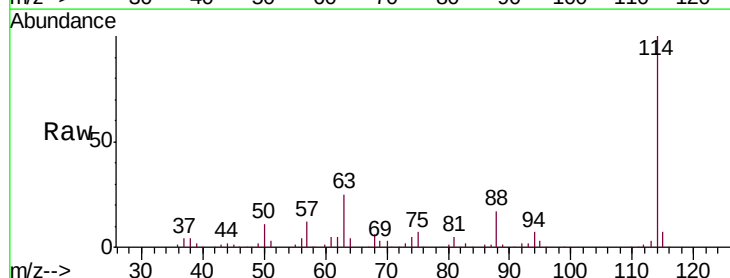
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-E1-(0)

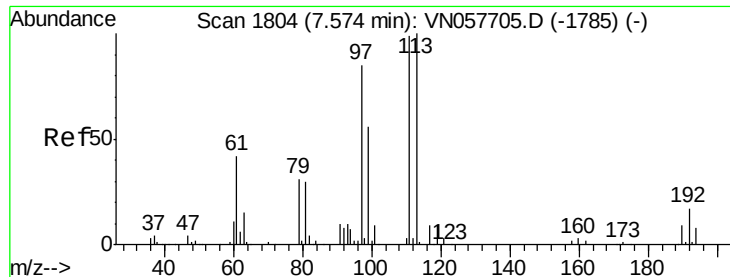
Tgt Ion: 65 Resp: 235770
 Ion Ratio Lower Upper
 65 100
 67 48.7 0.0 98.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057767.D
 Acq: 7 Sep 2019 20:15

Tgt Ion: 114 Resp: 318709
 Ion Ratio Lower Upper
 114 100
 63 25.4 0.0 52.4
 88 16.5 0.0 35.4





#35

Dibromofluoromethane

Concen: 50.344 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN057767.D

Acq: 7 Sep 2019 20:15

Instrument :

MSVOA_N

ClientSampleId :

T12-E1-(0)

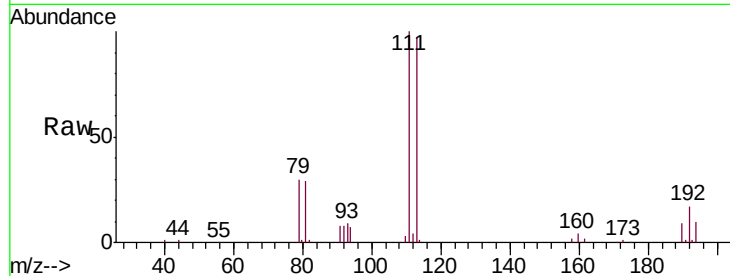
Tgt Ion:113 Resp: 146146

Ion Ratio Lower Upper

113 100

111 101.2 82.7 124.1

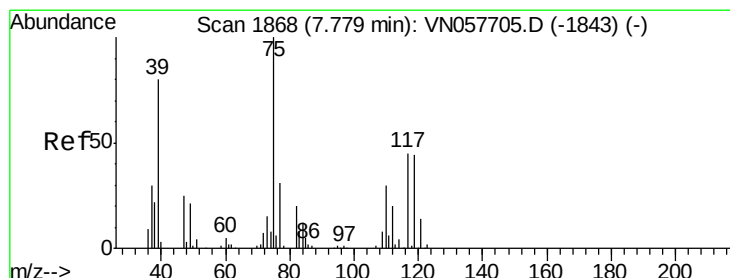
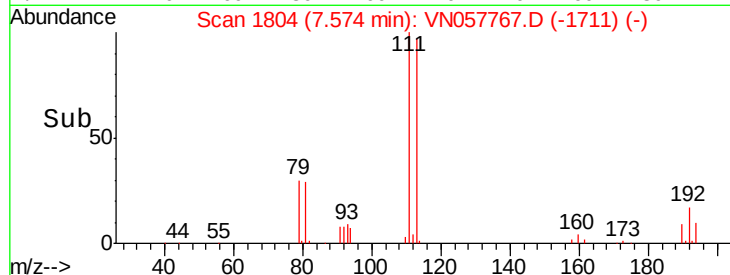
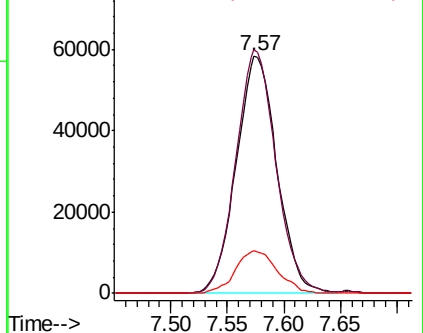
192 18.5 13.8 20.6



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: 4.559 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN057767.D

Acq: 7 Sep 2019 20:15

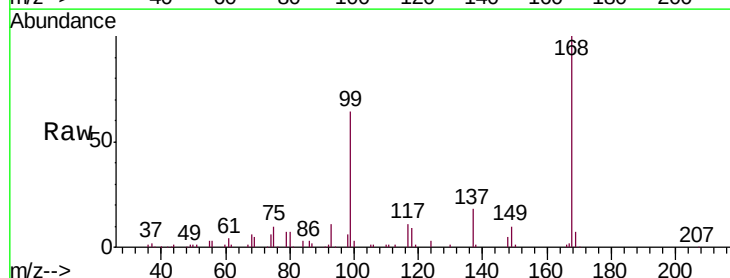
Tgt Ion: 75 Resp: 19331

Ion Ratio Lower Upper

75 100

110 9.0 15.0 45.0#

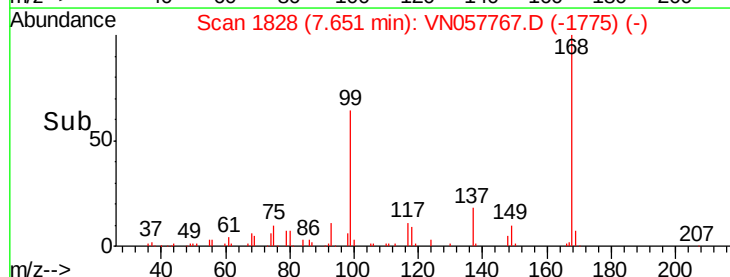
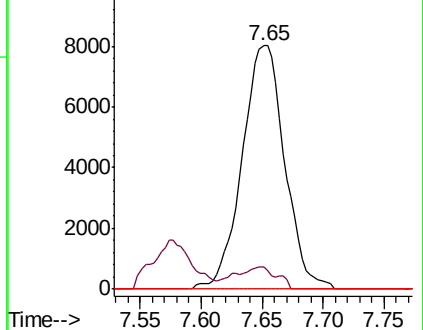
77 0.0 24.6 37.0#

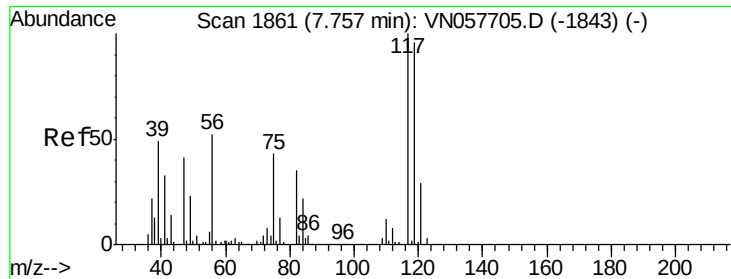


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0

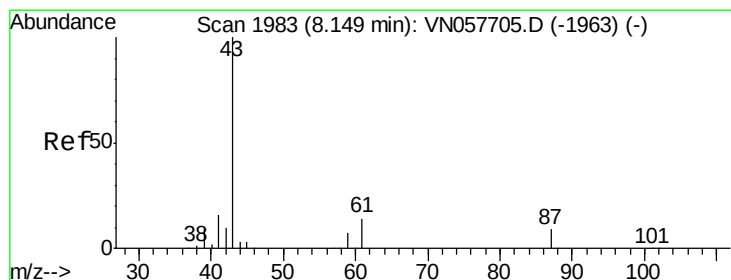
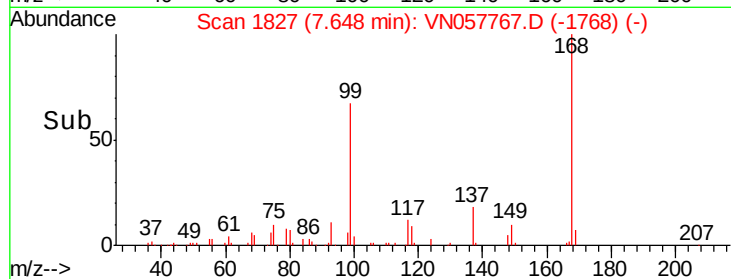
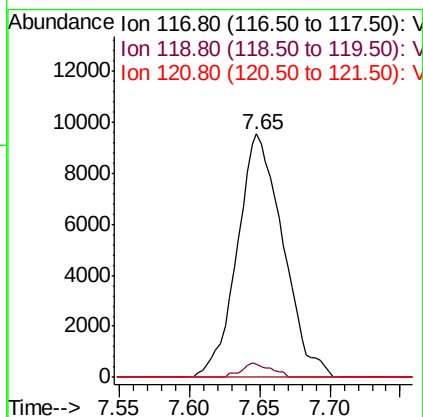
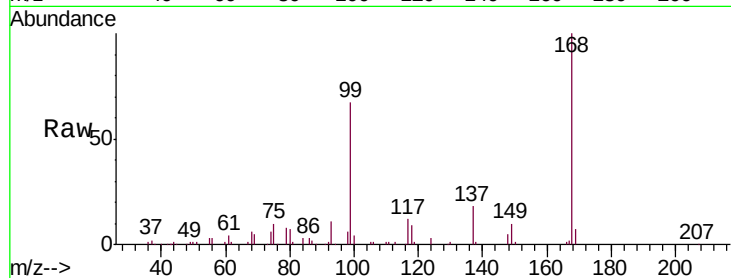




#38
Carbon Tetrachloride
Concen: 5.324 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN057767.D
Acq: 7 Sep 2019 20:15

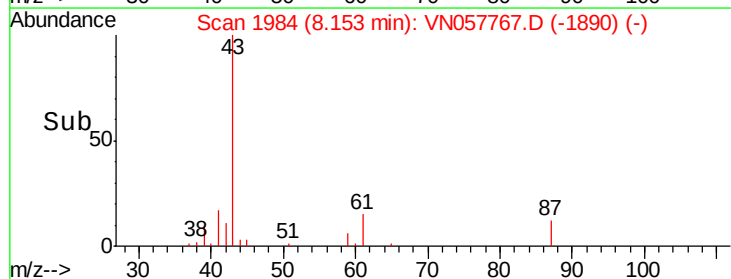
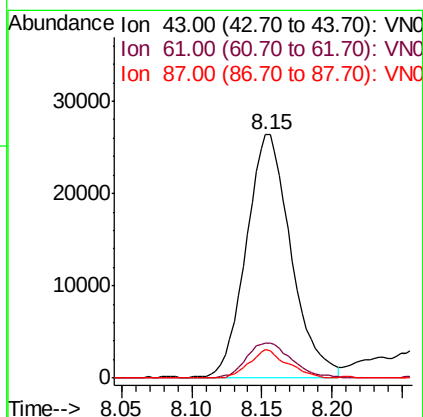
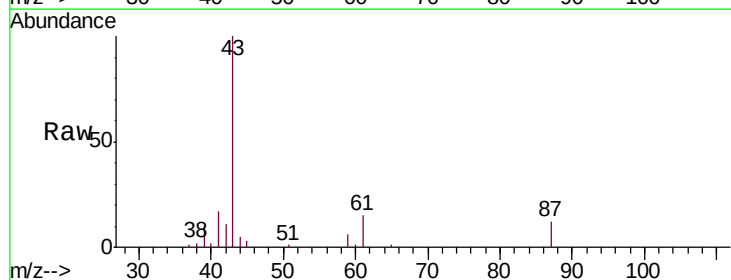
Instrument :
MSVOA_N
ClientSampled :
T12-E1-(0)

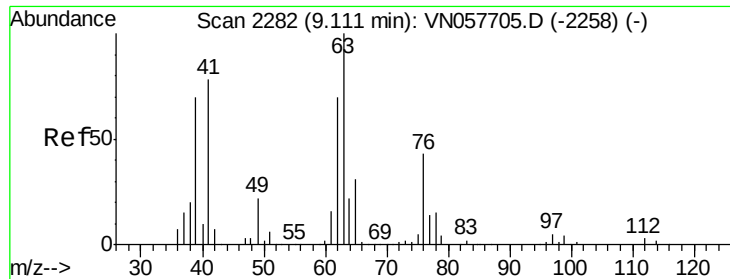
Tgt Ion:117 Resp: 21614
Ion Ratio Lower Upper
117 100
119 5.4 76.1 114.1#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 7.274 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN057767.D
Acq: 7 Sep 2019 20:15

Tgt Ion: 43 Resp: 58773
Ion Ratio Lower Upper
43 100
61 14.6 12.8 19.2
87 9.8 7.8 11.8

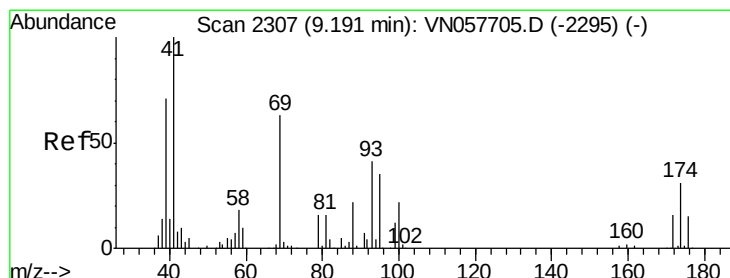
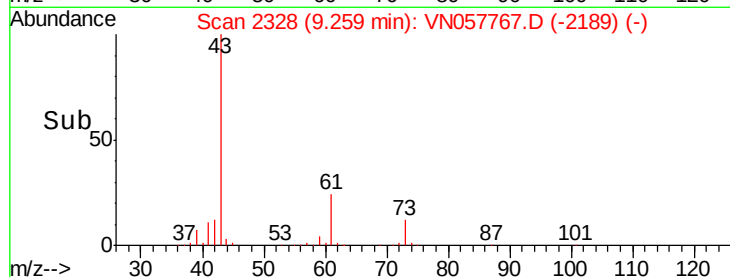
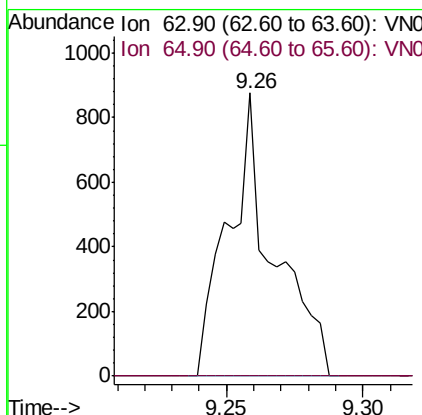
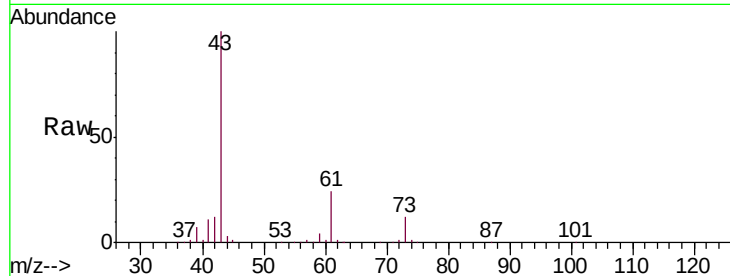




#45
 1,2-Dichloropropane
 Concen: 0.300 ug/l
 RT: 9.26 min Scan# 2328
 Delta R.T. 0.15 min
 Lab File: VN057767.D
 Acq: 7 Sep 2019 20:15

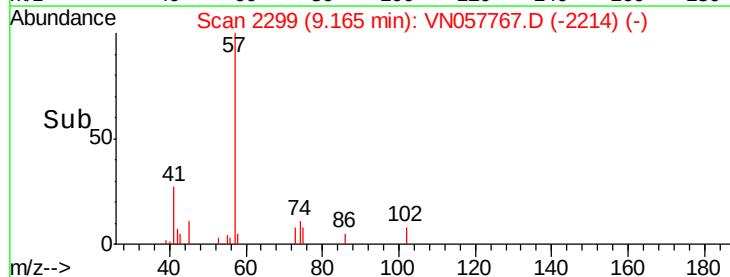
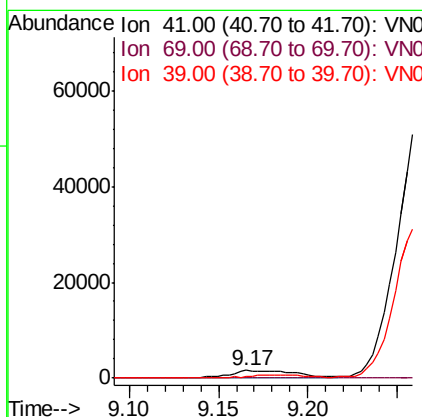
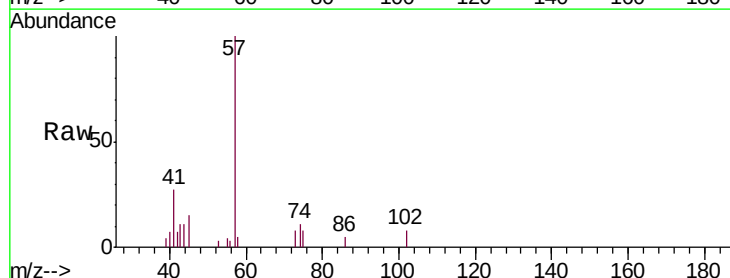
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-E1-(0)

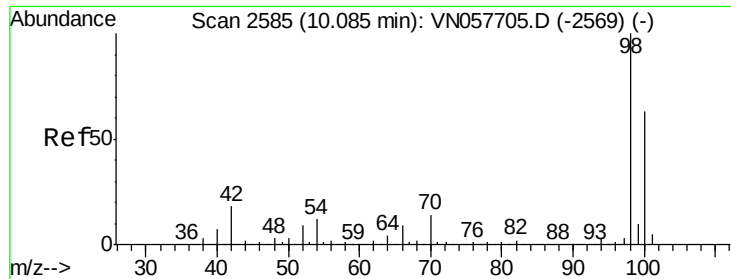
Tgt Ion: 63 Resp: 1007
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.5 36.7#



#48
 Methyl methacrylate
 Concen: 0.993 ug/l
 RT: 9.17 min Scan# 2299
 Delta R.T. -0.03 min
 Lab File: VN057767.D
 Acq: 7 Sep 2019 20:15

Tgt Ion: 41 Resp: 4127
 Ion Ratio Lower Upper
 41 100
 69 0.0 51.2 76.8#
 39 0.0 57.3 85.9#





#50

Toluene-d8

Concen: 50.646 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057767.D

Acq: 7 Sep 2019 20:15

Instrument :

MSVOA_N

ClientSampled :

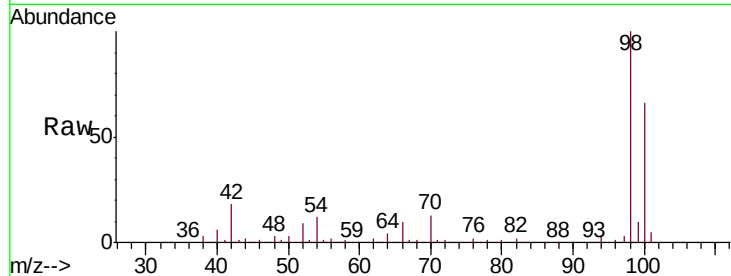
T12-E1-(0)

Tgt Ion: 98 Resp: 543874

Ion Ratio Lower Upper

98 100

100 64.6 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN057705.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057705.D (-2569) (-)

10.08

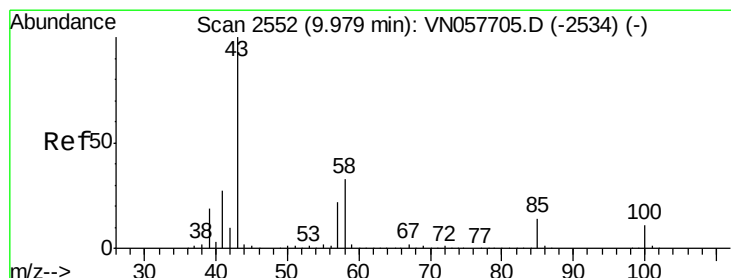
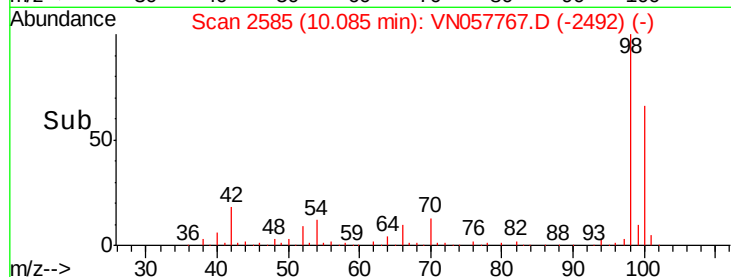
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.061 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN057767.D

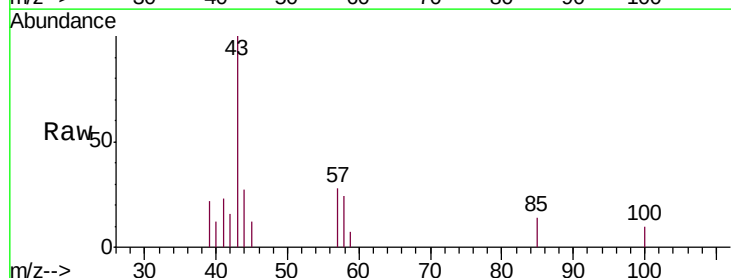
Acq: 7 Sep 2019 20:15

Tgt Ion: 43 Resp: 4760

Ion Ratio Lower Upper

43 100

58 24.3 25.8 38.8#



Abundance Ion 43.00 (42.70 to 43.70): VN057705.D (-2534) (-)

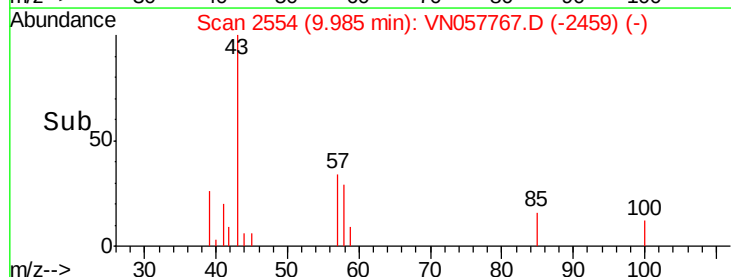
Ion 58.00 (57.70 to 58.70): VN057705.D (-2534) (-)

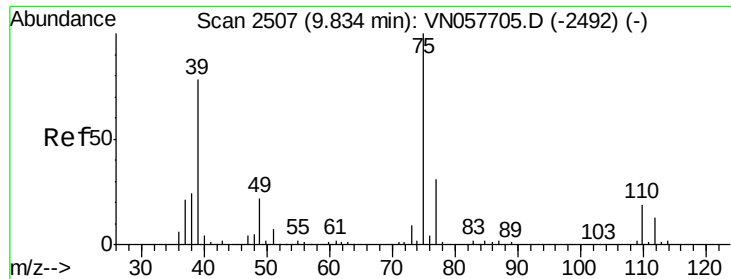
10000

5000

0

Time-->



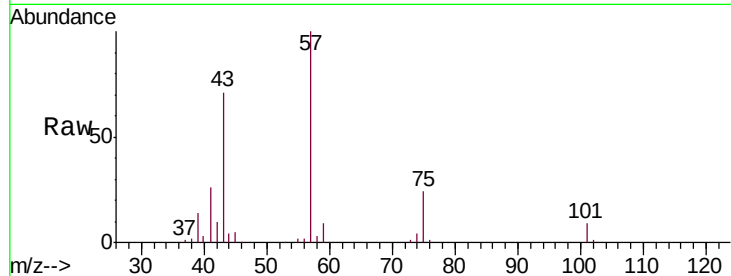


#54

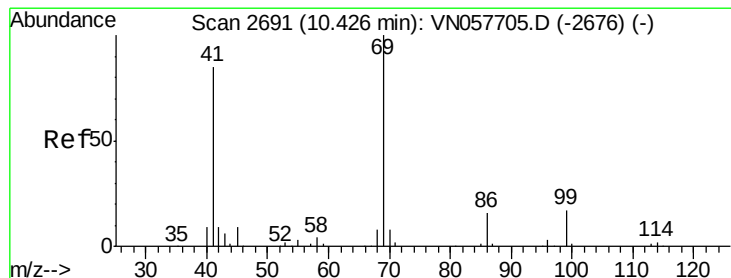
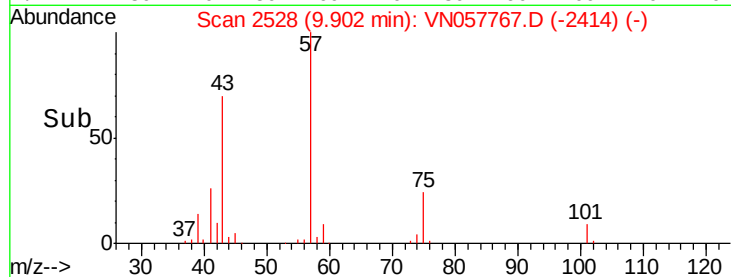
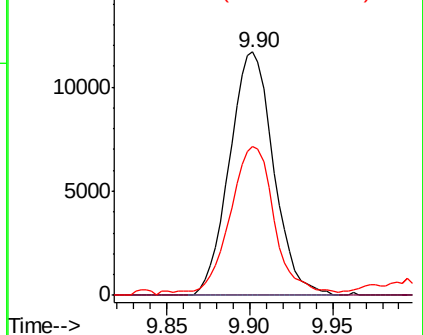
cis-1,3-Dichloropropene
 Concen: 4.357 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057767.D
 Acq: 7 Sep 2019 20:15

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-E1-(0)

Tgt Ion: 75 Resp: 21592
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 59.7 62.4 93.6#



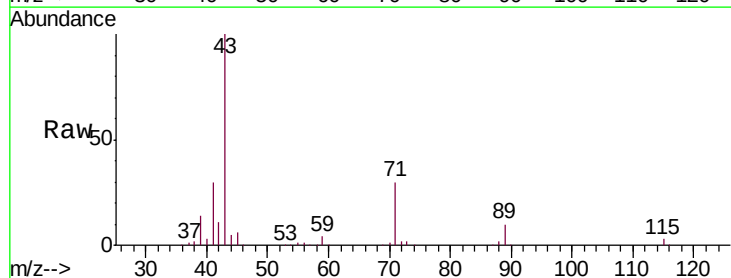
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



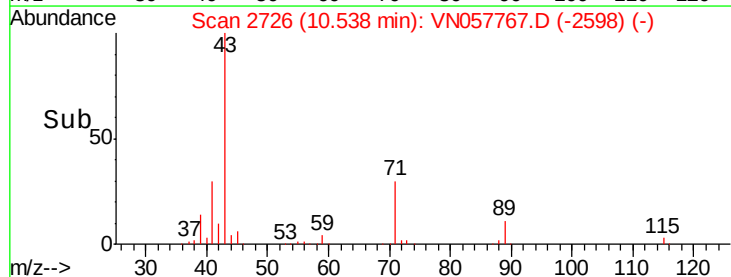
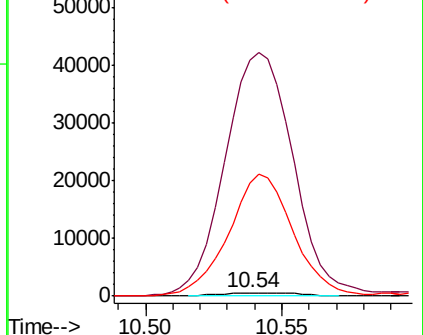
#56

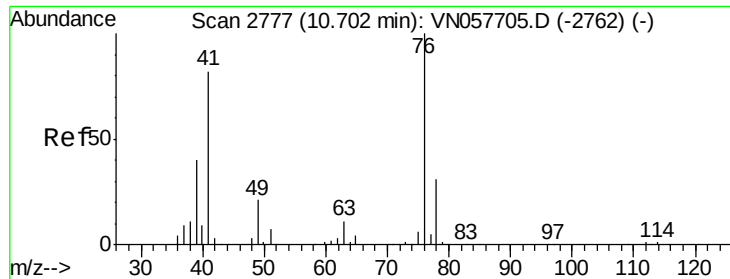
Ethyl methacrylate
 Concen: 0.225 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.11 min
 Lab File: VN057767.D
 Acq: 7 Sep 2019 20:15

Tgt Ion: 69 Resp: 1052
 Ion Ratio Lower Upper
 69 100
 41 6971.0 69.0 103.4#
 39 3292.3 49.2 73.8#



Abundance Ion 69.00 (68.70 to 69.70): VNO
 Ion 41.00 (40.70 to 41.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 0.639 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057767.D

Acq: 7 Sep 2019 20:15

Instrument :

MSVOA_N

ClientSampleId :

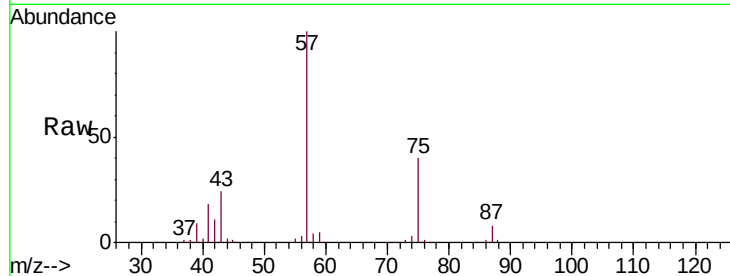
T12-E1-(0)

Tgt Ion: 76 Resp: 3357

Ion Ratio Lower Upper

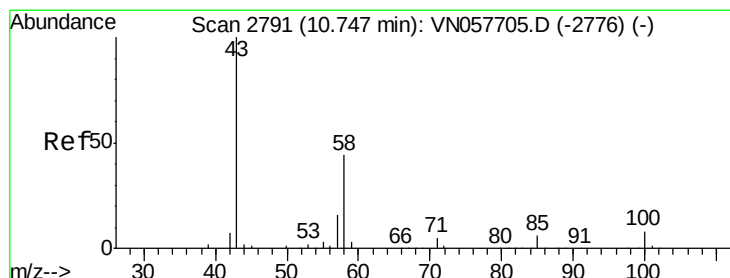
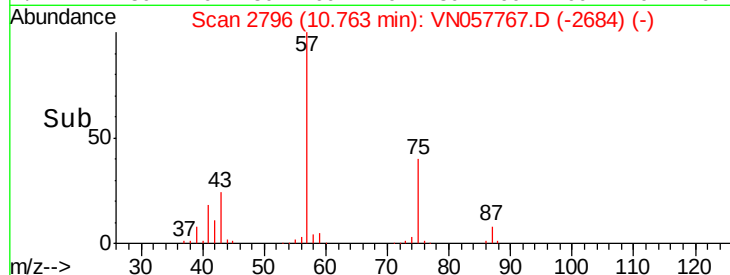
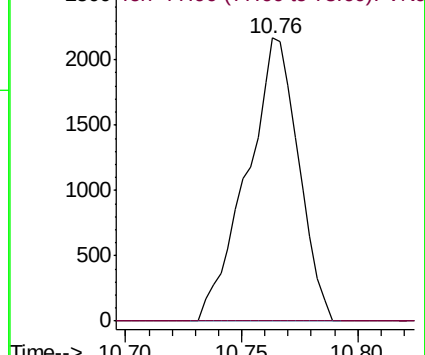
76 100

78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 19.792 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN057767.D

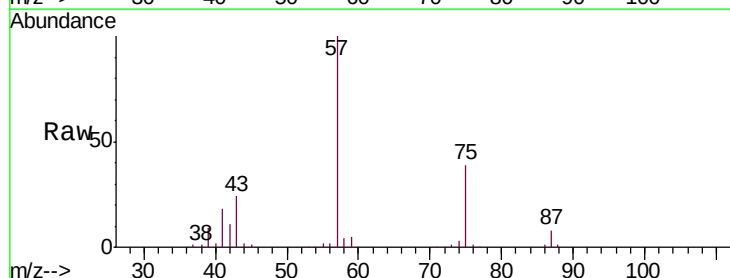
Acq: 7 Sep 2019 20:15

Tgt Ion: 43 Resp: 62622

Ion Ratio Lower Upper

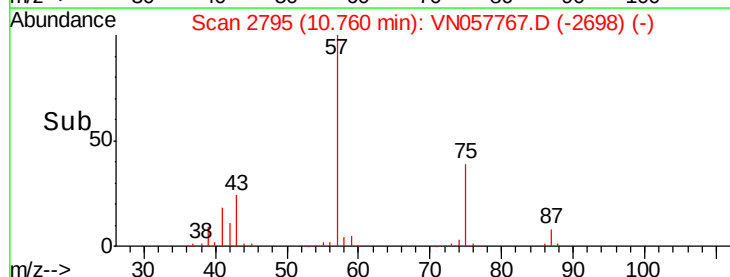
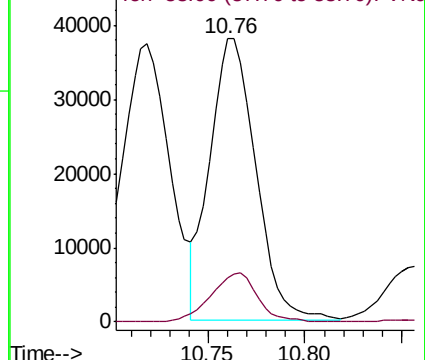
43 100

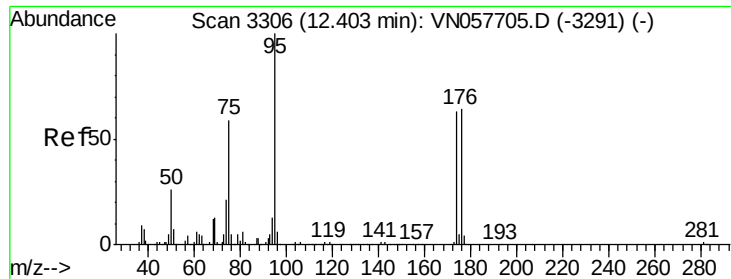
58 17.5 22.1 66.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 45.296 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057767.D

Acq: 7 Sep 2019 20:15

Instrument :

MSVOA_N

ClientSampleId :

T12-E1-(0)

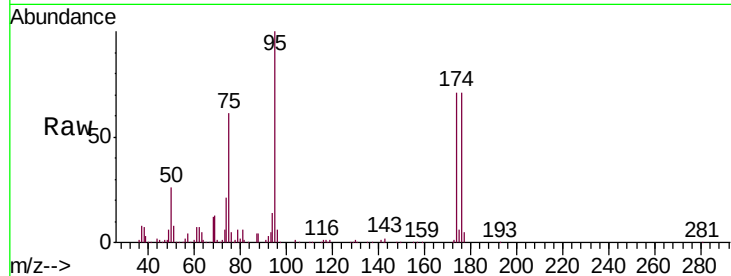
Tgt Ion: 95 Resp: 202037

Ion Ratio Lower Upper

95 100

174 72.6 0.0 128.0

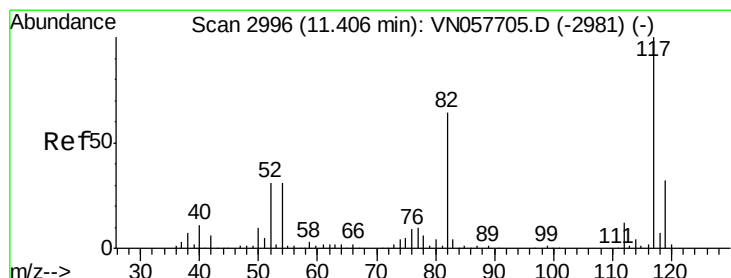
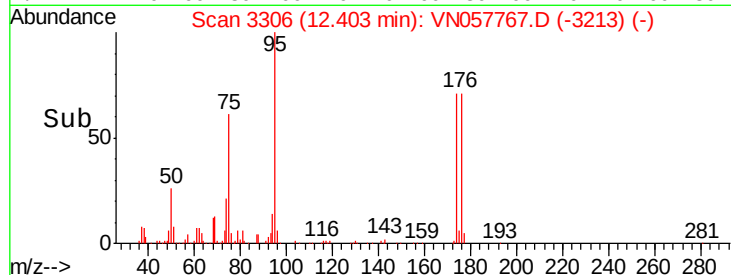
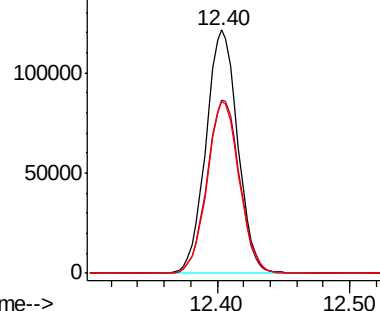
176 71.2 0.0 128.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057767.D

Acq: 7 Sep 2019 20:15

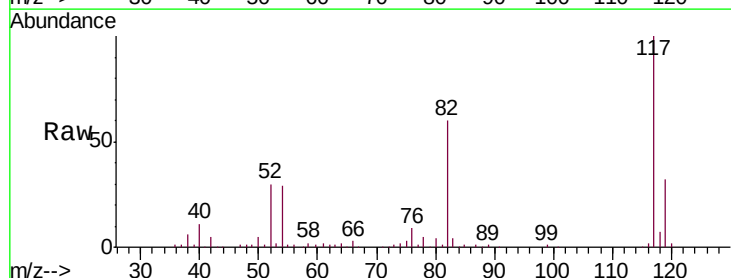
Tgt Ion: 117 Resp: 297643

Ion Ratio Lower Upper

117 100

82 59.9 51.4 77.0

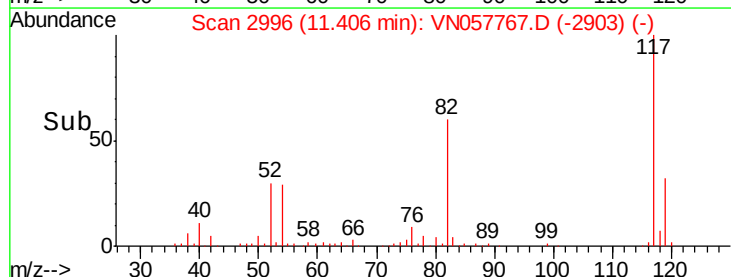
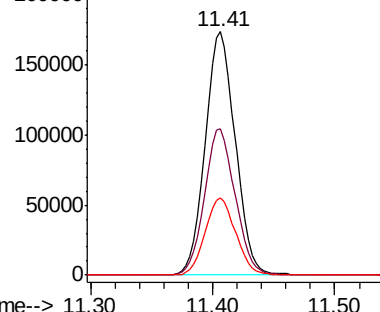
119 31.8 25.4 38.2

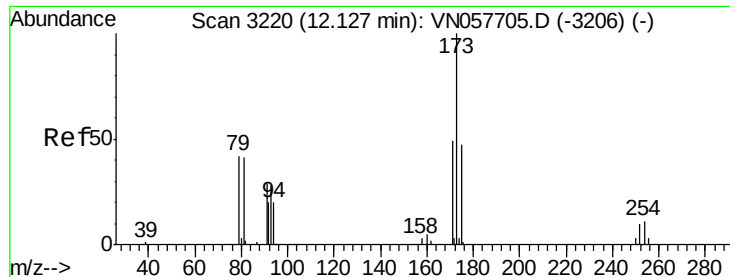


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 3.714 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN057767.D

Acq: 7 Sep 2019 20:15

Instrument :

MSVOA_N

ClientSampleId :

T12-E1-(0)

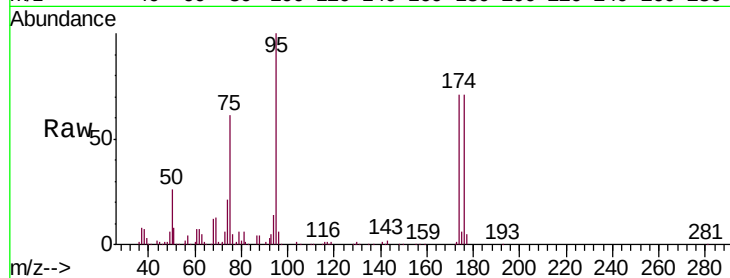
Tgt Ion:173 Resp: 1019

Ion Ratio Lower Upper

173 100

175 947.9 24.6 73.8#

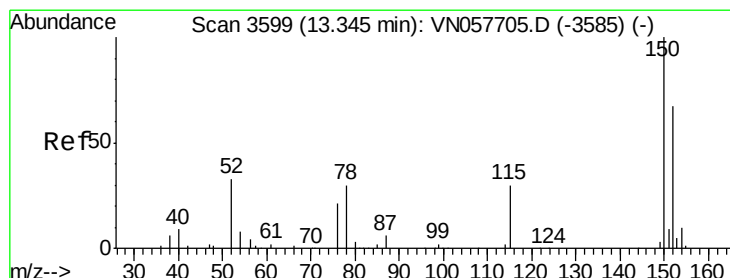
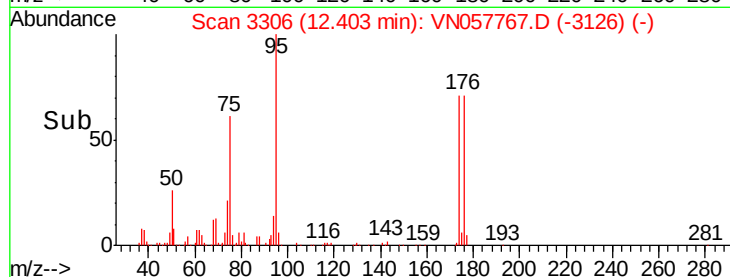
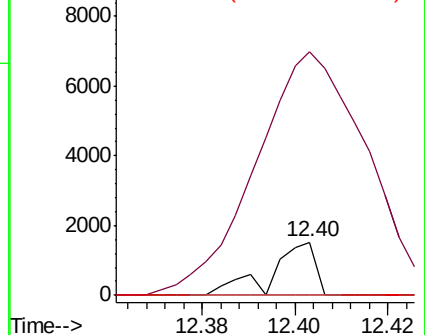
254 0.0 0.0 0.0



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: VN057767.D

Acq: 7 Sep 2019 20:15

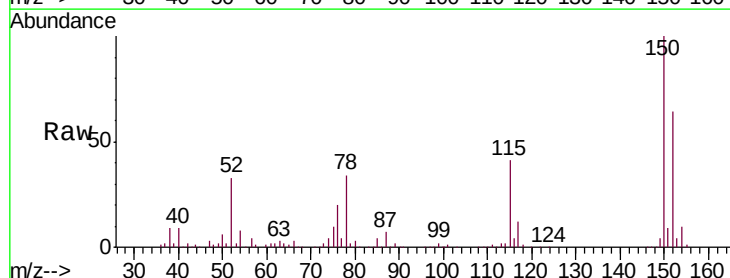
Tgt Ion:152 Resp: 153298

Ion Ratio Lower Upper

152 100

115 62.2 33.8 101.3

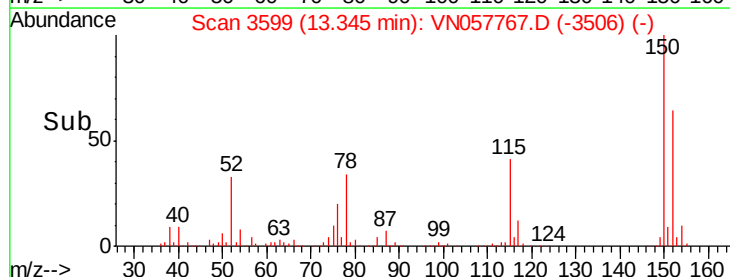
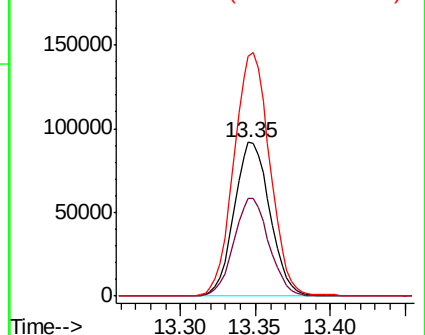
150 158.9 0.0 345.4

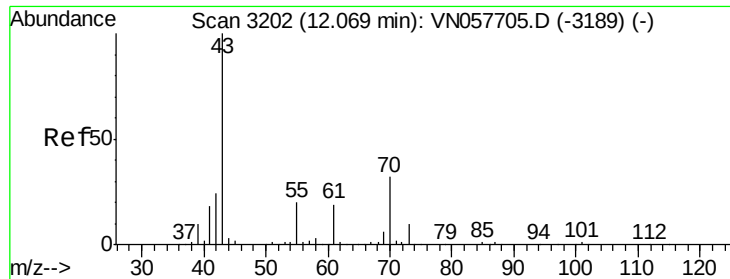


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.468 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057767.D

Acq: 7 Sep 2019 20:15

Instrument :

MSVOA_N

ClientSampleId :

T12-E1-(0)

Tgt Ion: 43 Resp: 3170

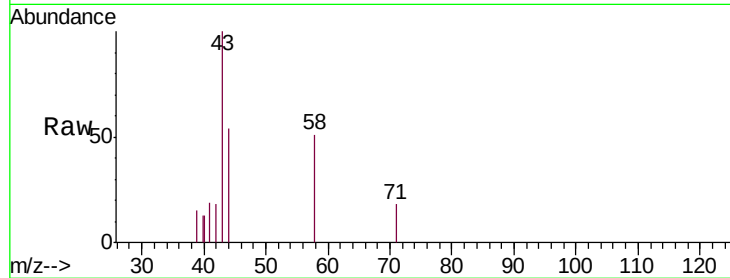
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 3.8 16.3 24.5#

61 0.0 15.0 22.4#

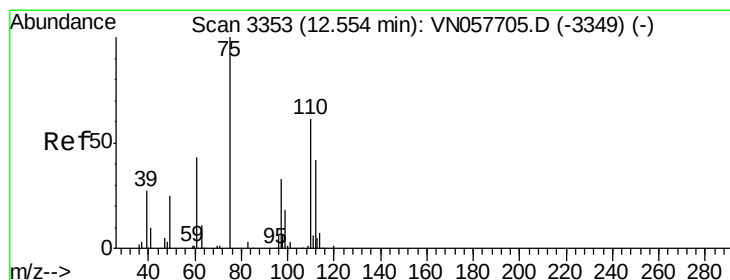
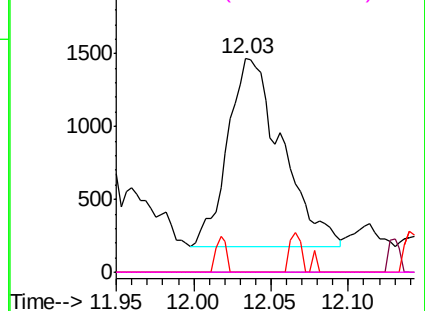
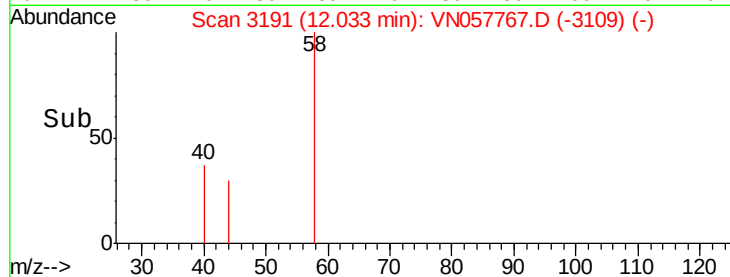


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 34.789 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057767.D

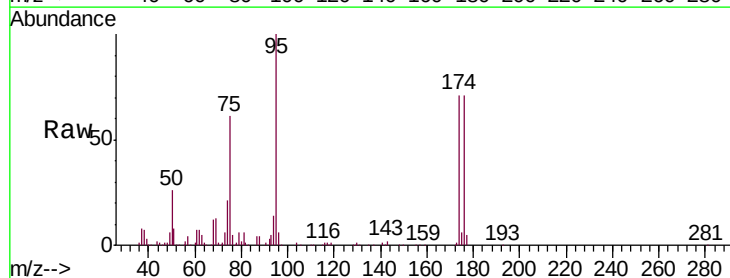
Acq: 7 Sep 2019 20:15

Tgt Ion: 75 Resp: 122469

Ion Ratio Lower Upper

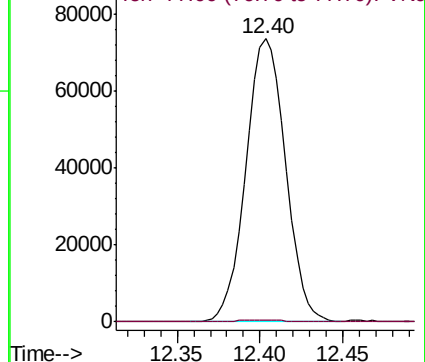
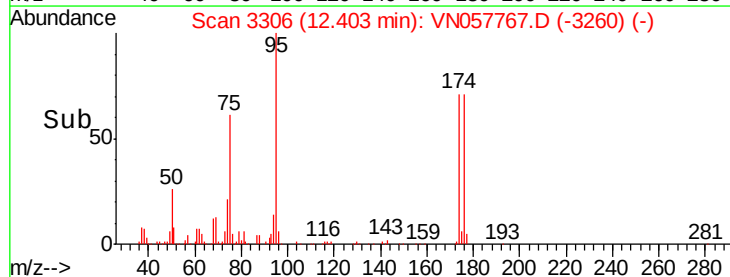
75 100

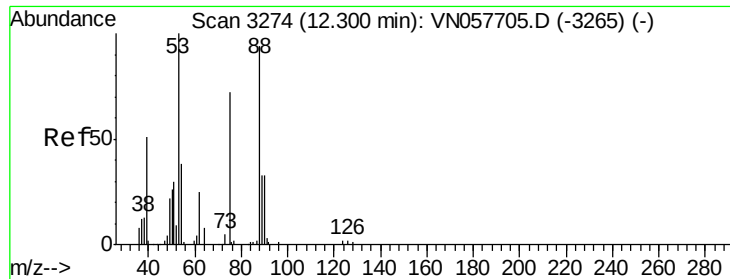
77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 108.195 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057767.D
 Acq: 7 Sep 2019 20:15

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-E1-(0)

Tgt Ion: 75 Resp: 122469
 Ion Ratio Lower Upper
 75 100
 53 0.0 107.0 160.6#
 89 0.0 36.5 54.7#

