

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057995.D
 Acq On : 13 Sep 2019 1:15
 Operator : JC/SP
 Sample : K4680-35
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T3-3-(0)

Quant Time: Sep 13 04:53:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	233590	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	428996	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	382341	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	186977	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	316792	66.96	ug/l	0.00
Spiked Amount			Recovery	=	133.92%	
35) Dibromofluoromethane	7.58	113	211875	53.51	ug/l	0.00
Spiked Amount			Recovery	=	107.02%	
50) Toluene-d8	10.09	98	753779	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
62) 4-Bromofluorobenzene	12.41	95	252630	43.12	ug/l	0.00
Spiked Amount			Recovery	=	86.24%	

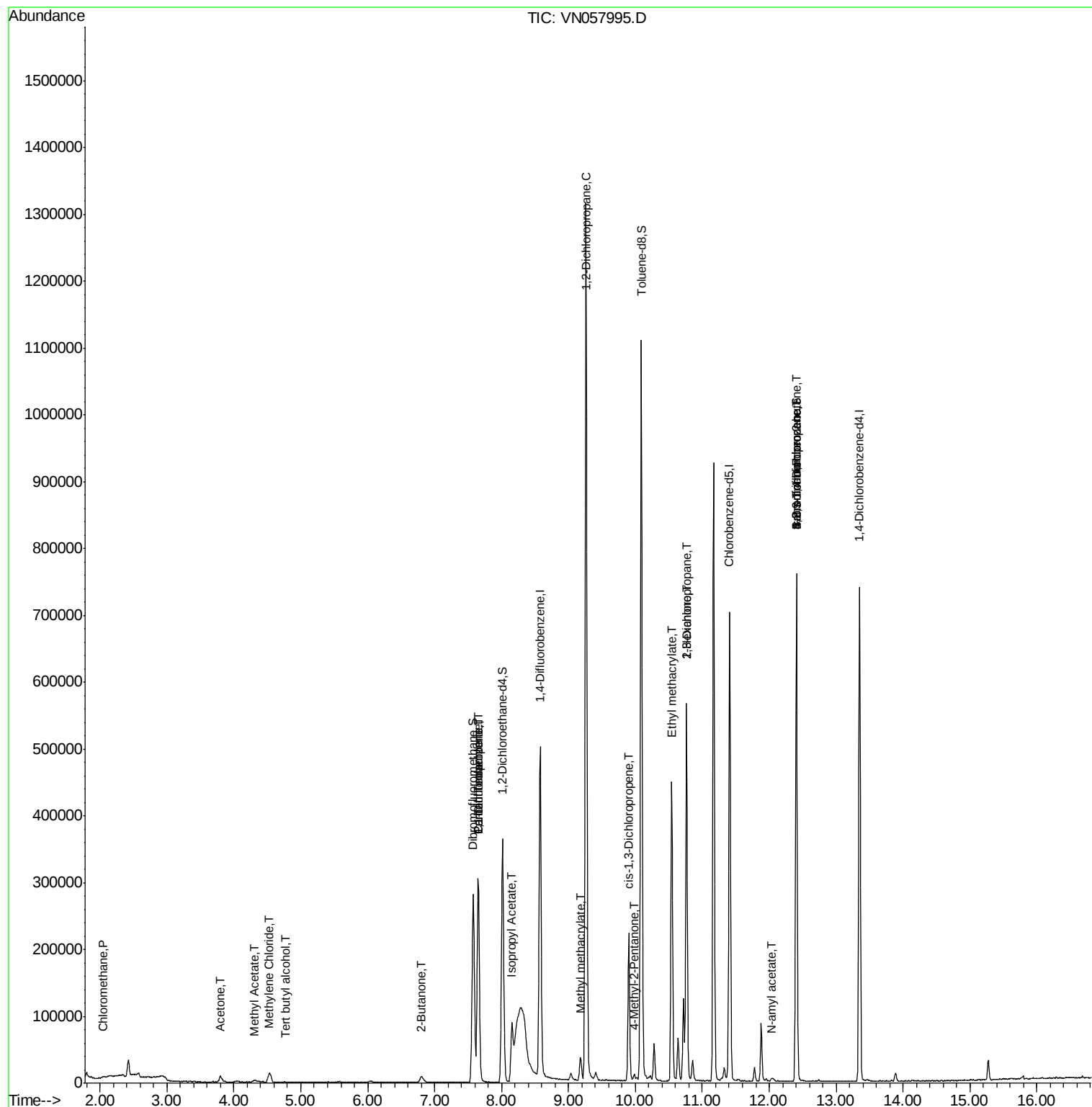
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	682	0.207	ug/l #	43
5) Bromomethane	2.51	94	29	Below Cal	#	2
11) Tert butyl alcohol	4.78	59	152	0.265	ug/l #	72
16) Acetone	3.79	43	14983	9.660	ug/l	97
18) Methyl Acetate	4.31	43	6873	1.662	ug/l #	76
20) Methylene Chloride	4.53	84	10845	2.504	ug/l	97
25) 2-Butanone	6.82	43	908	0.404	ug/l #	49
31) Cyclohexane	7.64	56	2695	Below Cal	#	53
36) 1,1-Dichloropropene	7.65	75	21037	4.228	ug/l #	51
38) Carbon Tetrachloride	7.65	117	24474	5.388	ug/l #	16
43) Isopropyl Acetate	8.16	43	108663	12.570	ug/l #	84
45) 1,2-Dichloropropane	9.26	63	1279	0.293	ug/l #	44
48) Methyl methacrylate	9.18	41	5154	1.175	ug/l #	14
51) 4-Methyl-2-Pentanone	9.99	43	7037	1.376	ug/l	95
54) cis-1,3-Dichloropropene	9.90	75	37278	6.096	ug/l #	66
56) Ethyl methacrylate	10.54	69	1986	0.330	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5553	0.806	ug/l #	43
59) 2-Hexanone	10.76	43	87550	22.834	ug/l #	54
71) Bromoform	12.40	173	1254	0.579	ug/l #	1
74) N-amyl acetate	12.04	43	4382	0.694	ug/l #	50
76) 1,2,3-Trichloropropane	12.41	75	139258	32.924	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	139258	115.858	ug/l #	6
95) Naphthalene	15.13	128	567	Below Cal	#	69

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
Data File : VN057995.D
Acq On : 13 Sep 2019 1:15
Operator : JC/SP
Sample : K4680-35
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
T3-3-(0)

Quant Time: Sep 13 04:53:37 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057995.D

Acq: 13 Sep 2019 1:15

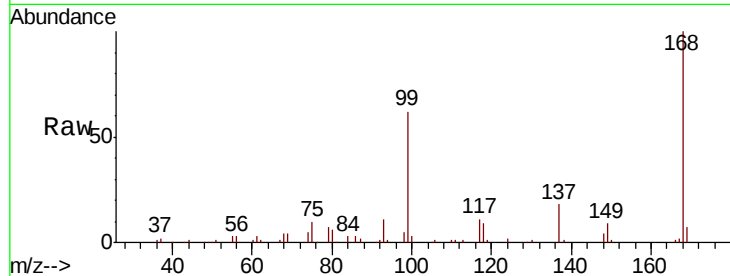
Instrument :
MSVOA_N
ClientSampled :
T3-3-(0)

Tgt Ion:168 Resp: 233590

Ion Ratio Lower Upper

168 100

99 62.4 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

100000

80000

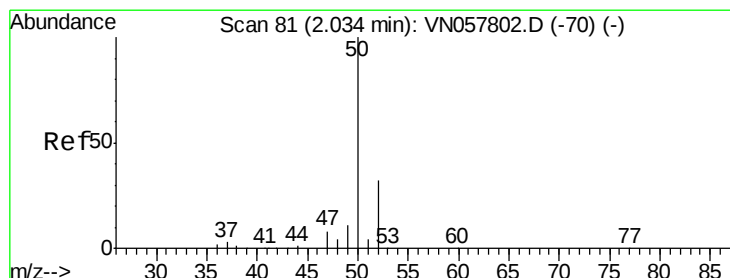
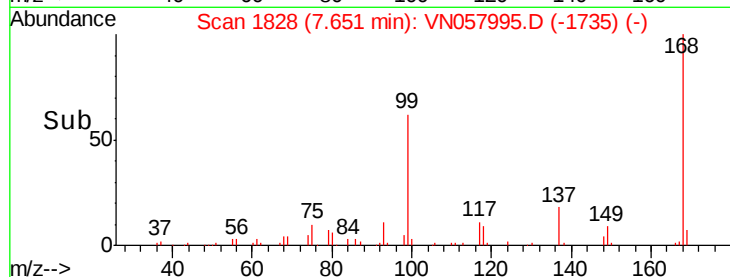
60000

40000

20000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#3

Chloromethane

Concen: 0.207 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.01 min

Lab File: VN057995.D

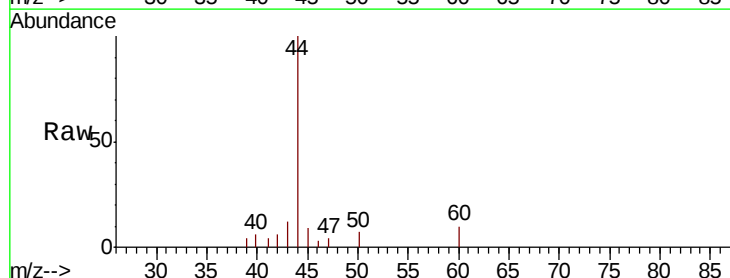
Acq: 13 Sep 2019 1:15

Tgt Ion: 50 Resp: 682

Ion Ratio Lower Upper

50 100

52 0.0 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

500

400

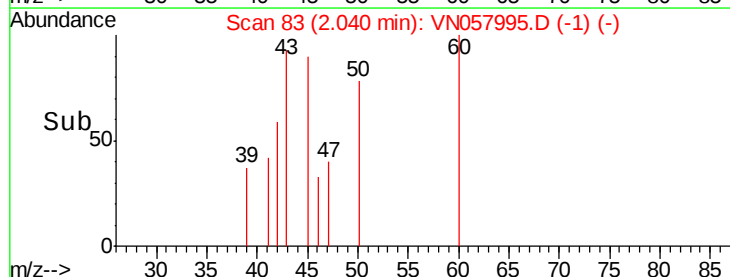
300

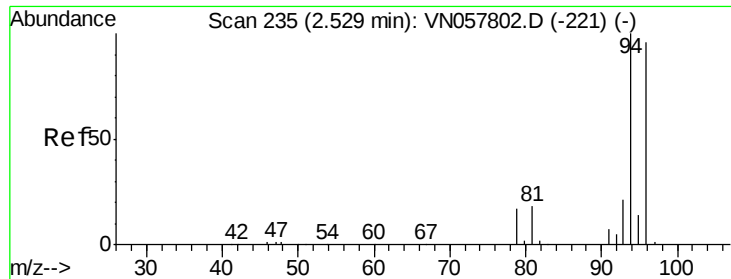
200

100

0

Time--> 2.02 2.04 2.06

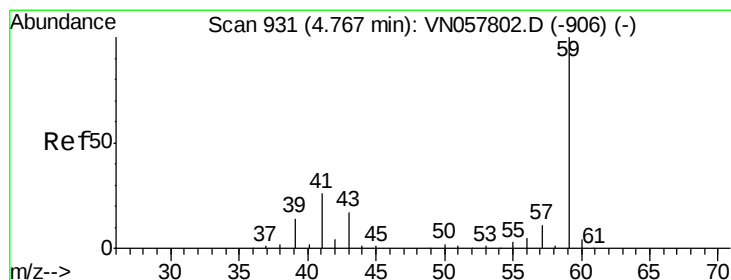
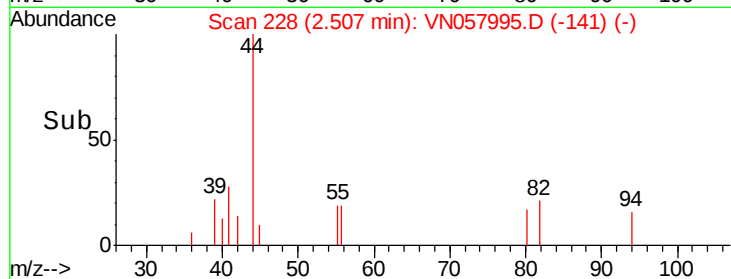
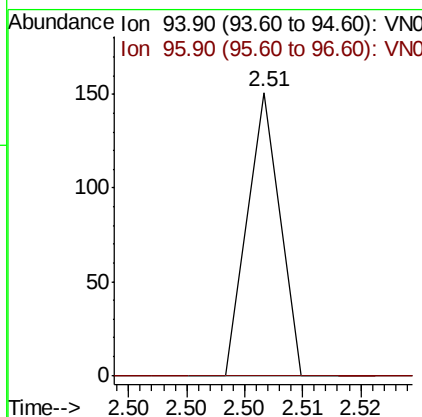
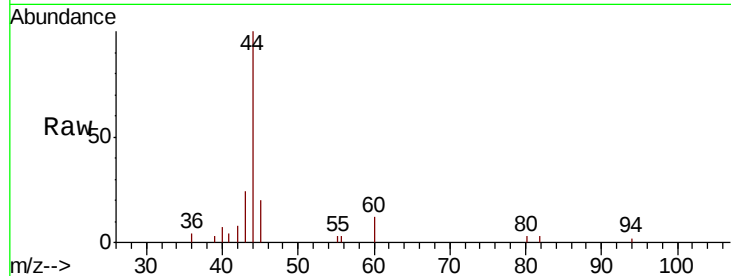




#5
Bromomethane
Concen: Below Cal
RT: 2.51 min Scan# 228
Delta R.T. -0.02 min
Lab File: VN057995.D
Acq: 13 Sep 2019 1:15

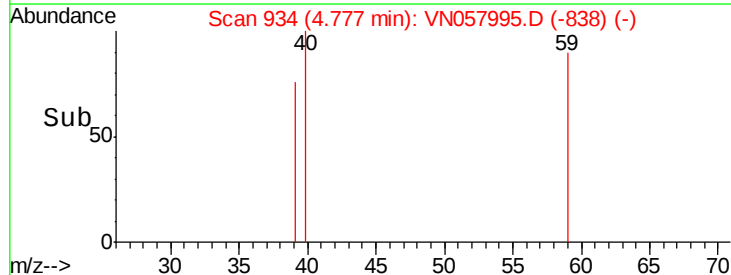
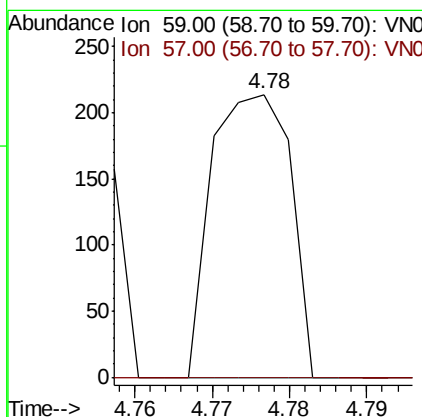
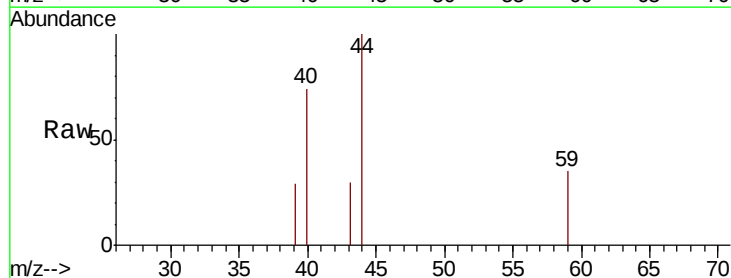
Instrument :
MSVOA_N
ClientSampleId :
T3-3-(0)

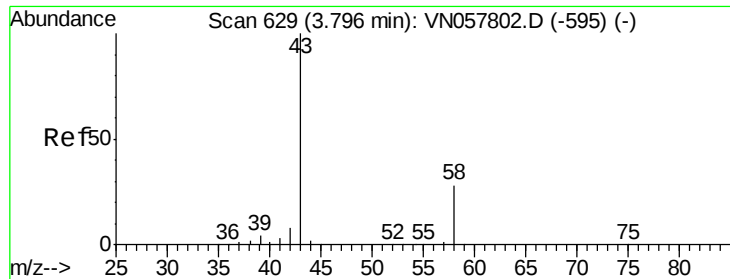
Tgt Ion: 94 Resp: 29
Ion Ratio Lower Upper
94 100
96 0.0 77.0 115.4#



#11
Tert butyl alcohol
Concen: 0.265 ug/l
RT: 4.78 min Scan# 934
Delta R.T. 0.01 min
Lab File: VN057995.D
Acq: 13 Sep 2019 1:15

Tgt Ion: 59 Resp: 152
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#16

Acetone

Concen: 9.660 ug/l

RT: 3.79 min Scan# 628

Delta R.T. -0.00 min

Lab File: VN057995.D

Acq: 13 Sep 2019 1:15

Instrument :

MSVOA_N

ClientSampled :

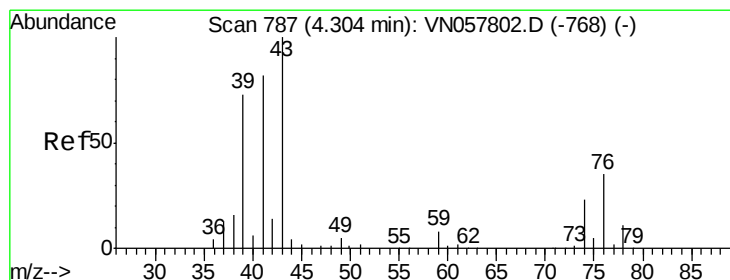
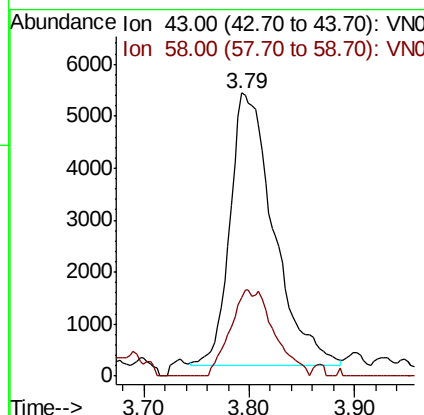
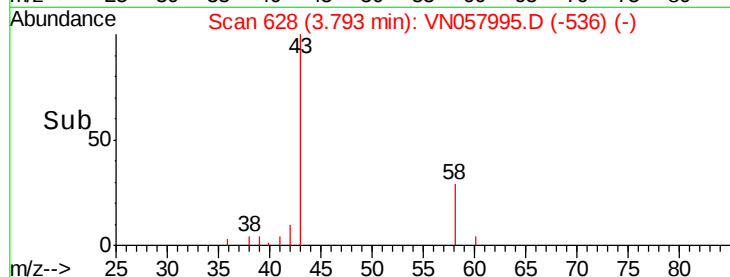
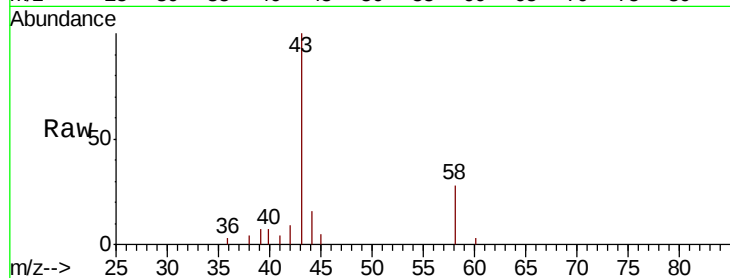
T3-3-(0)

Tgt Ion: 43 Resp: 14983

Ion Ratio Lower Upper

43 100

58 29.4 22.2 33.2



#18

Methyl Acetate

Concen: 1.662 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN057995.D

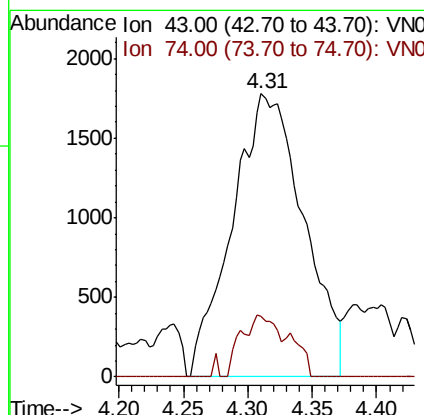
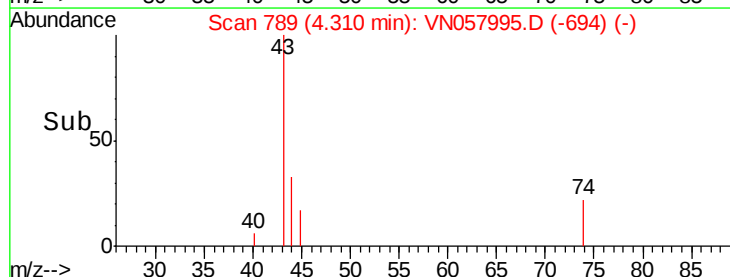
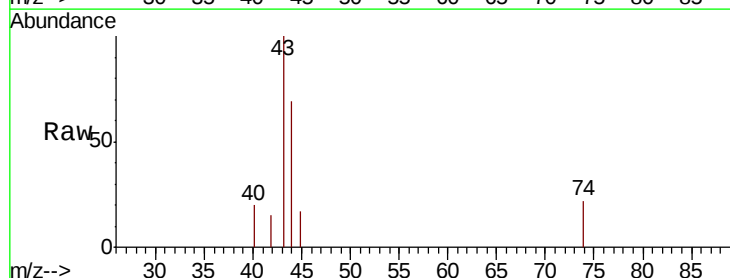
Acq: 13 Sep 2019 1:15

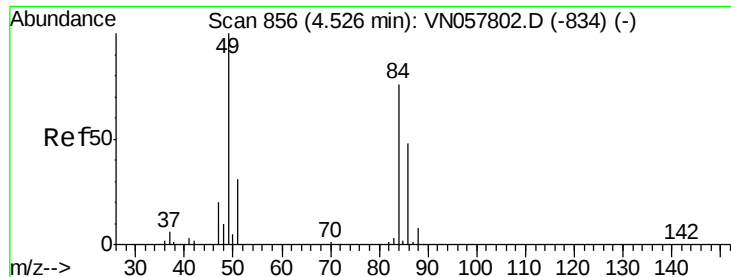
Tgt Ion: 43 Resp: 6873

Ion Ratio Lower Upper

43 100

74 11.0 17.9 26.9#

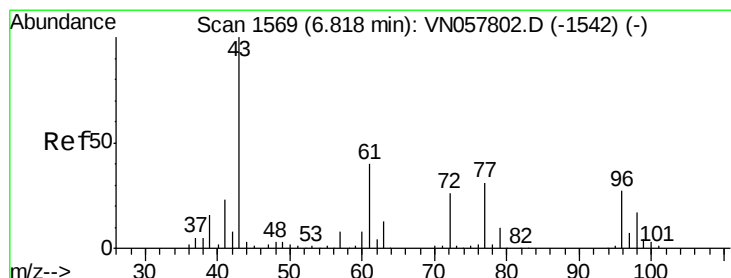
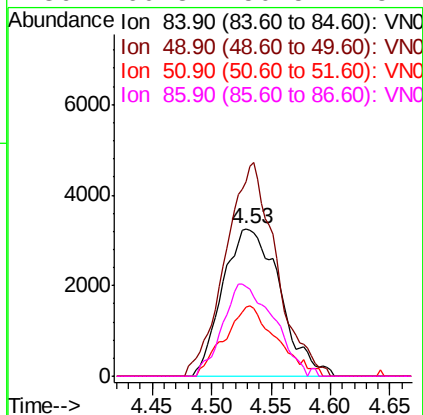
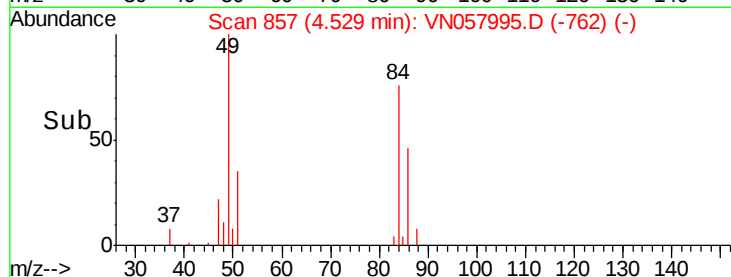
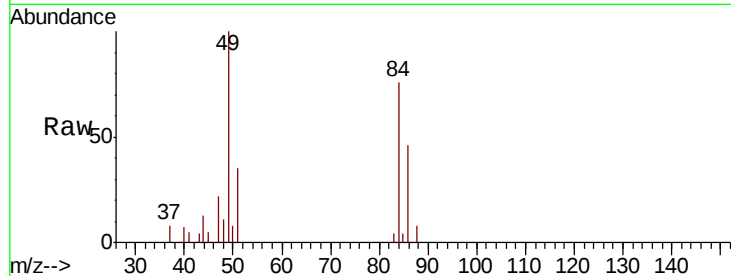




#20
Methylene Chloride
Concen: 2.504 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057995.D
Acq: 13 Sep 2019 1:15

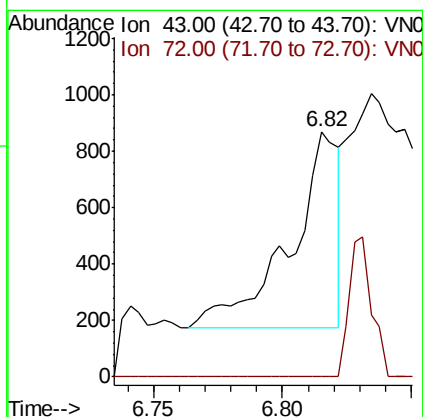
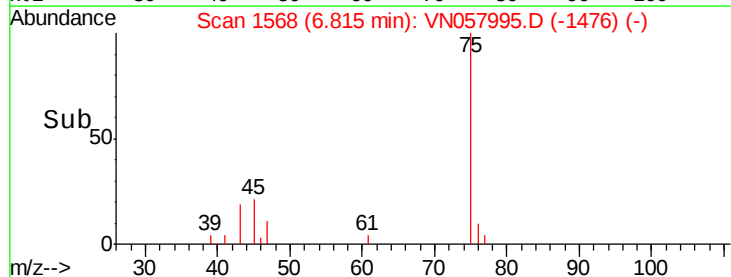
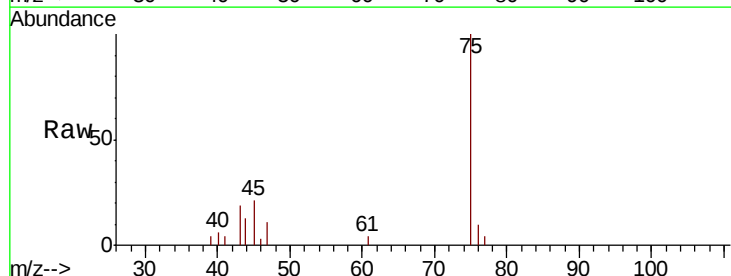
Instrument :
MSVOA_N
ClientSampled :
T3-3-(0)

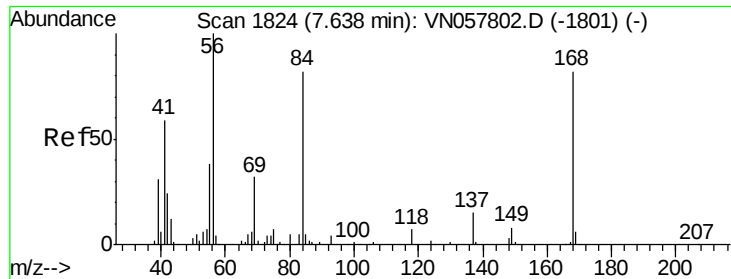
Tgt Ion: 84 Resp: 10845
Ion Ratio Lower Upper
84 100
49 131.9 104.8 157.2
51 46.4 33.0 49.4
86 60.8 50.5 75.7



#25
2-Butanone
Concen: 0.404 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VN057995.D
Acq: 13 Sep 2019 1:15

Tgt Ion: 43 Resp: 908
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#

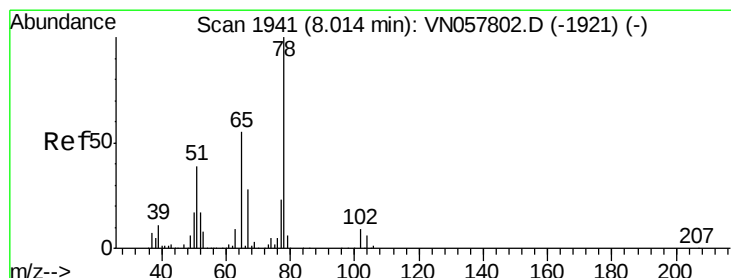
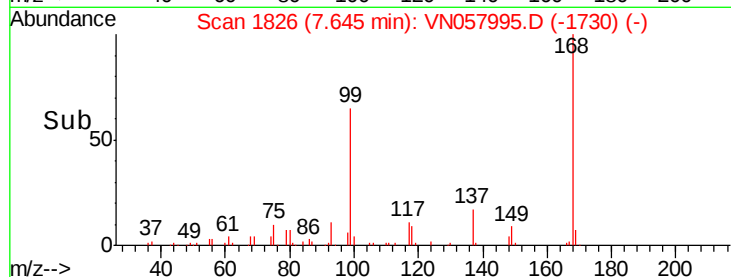
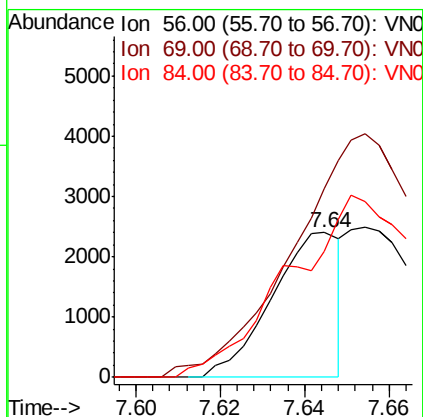
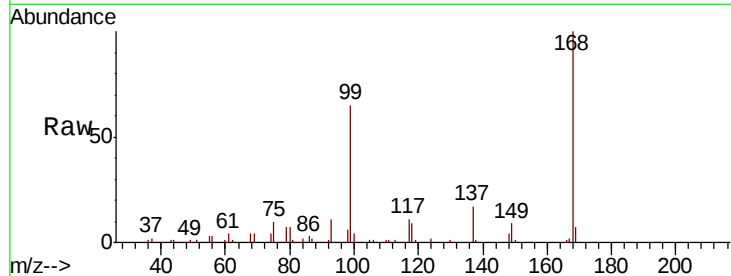




#31
Cyclohexane
Concen: Below Cal
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN057995.D
Acq: 13 Sep 2019 1:15

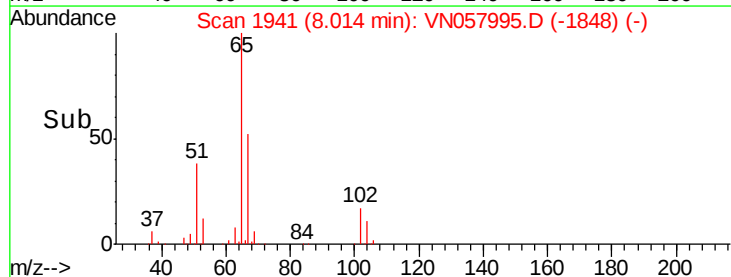
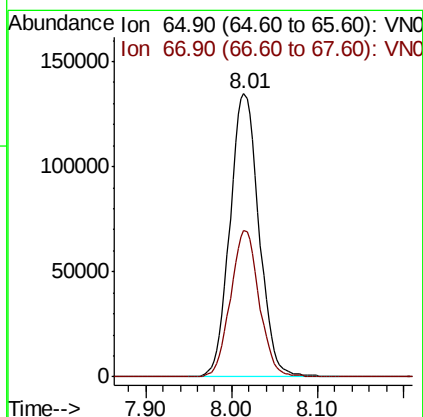
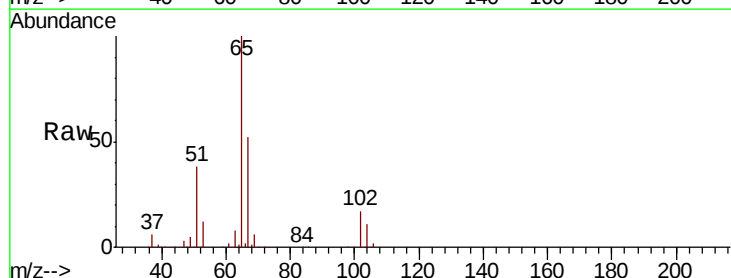
Instrument :
MSVOA_N
ClientSampled :
T3-3-(0)

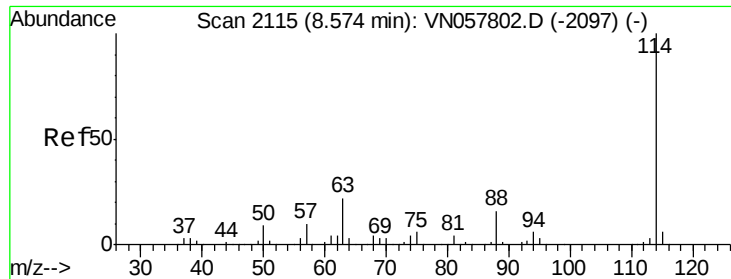
Tgt Ion: 56 Resp: 2695
Ion Ratio Lower Upper
56 100
69 121.6 25.9 38.9#
84 80.2 65.6 98.4



#33
1,2-Dichloroethane-d4
Concen: 66.958 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057995.D
Acq: 13 Sep 2019 1:15

Tgt Ion: 65 Resp: 316792
Ion Ratio Lower Upper
65 100
67 51.0 0.0 104.0

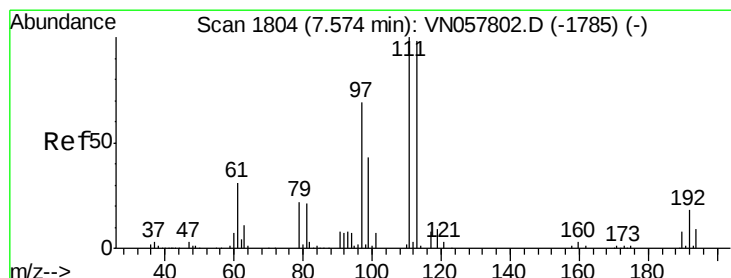
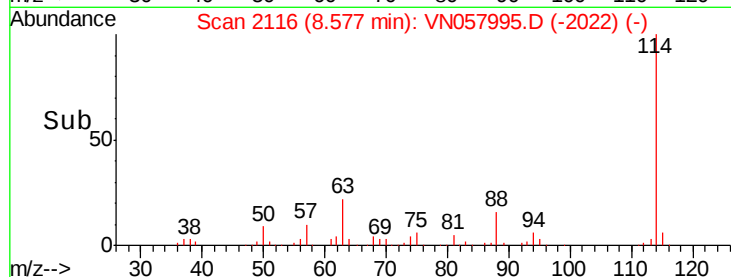
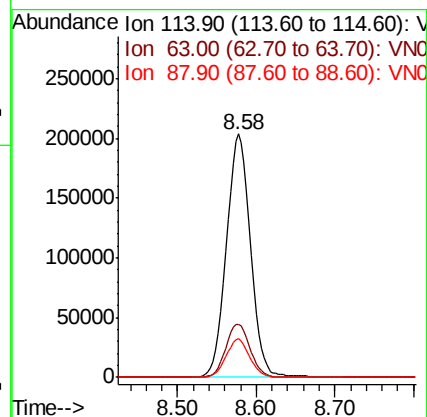
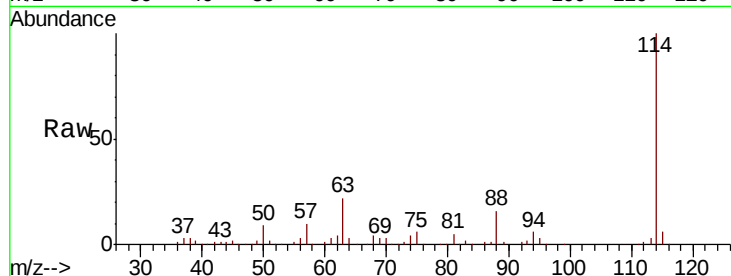




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057995.D
 Acq: 13 Sep 2019 1:15

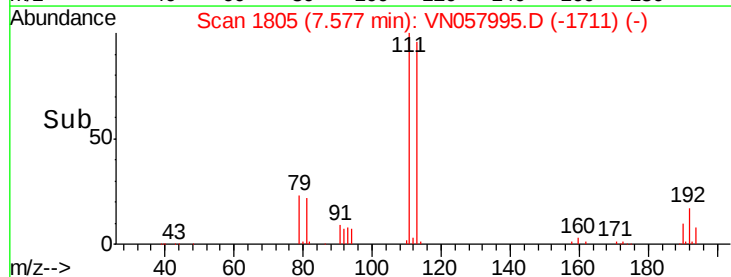
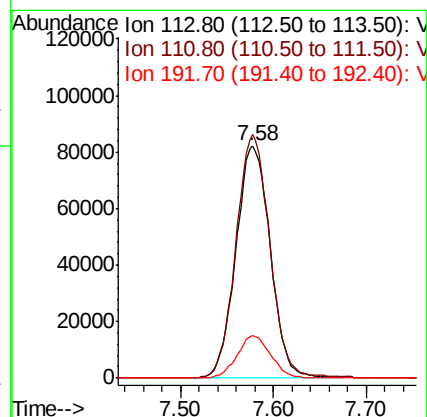
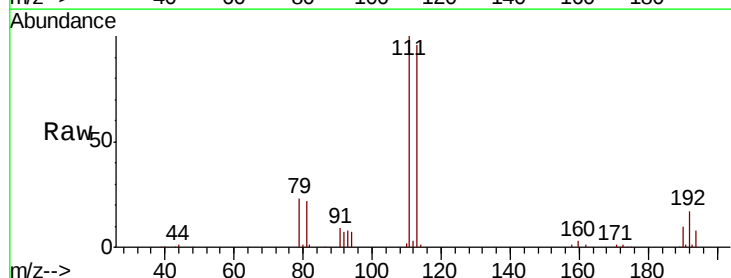
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-3-(0)

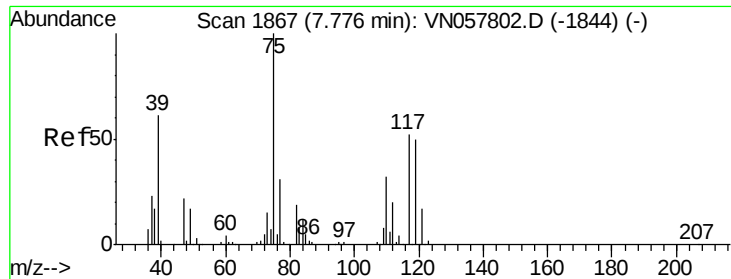
Tgt Ion:114 Resp: 428996
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 44.0
 88 15.7 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 53.511 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057995.D
 Acq: 13 Sep 2019 1:15

Tgt Ion:113 Resp: 211875
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.3 121.9
 192 17.9 14.6 22.0

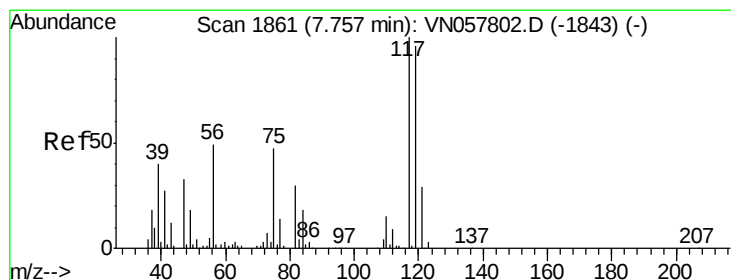
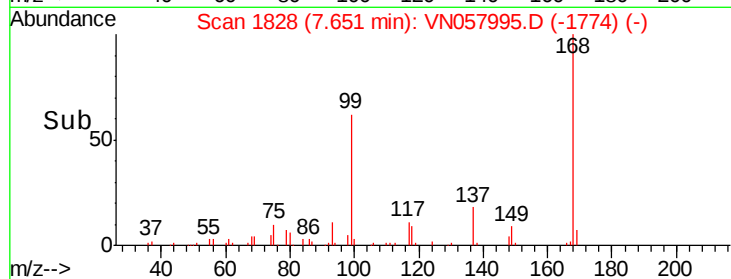
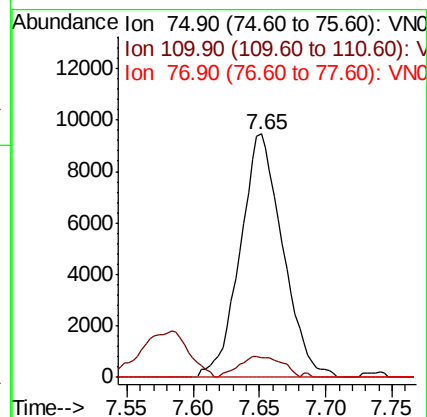
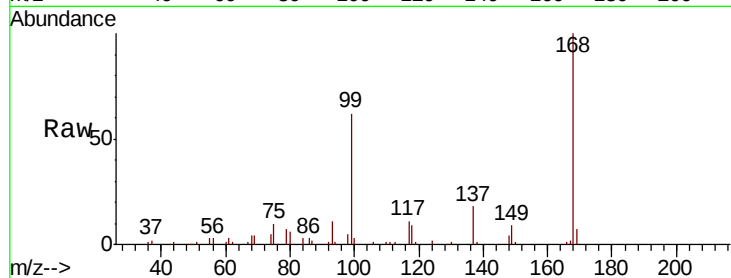




#36
 1,1-Dichloropropene
 Concen: 4.228 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057995.D
 Acq: 13 Sep 2019 1:15

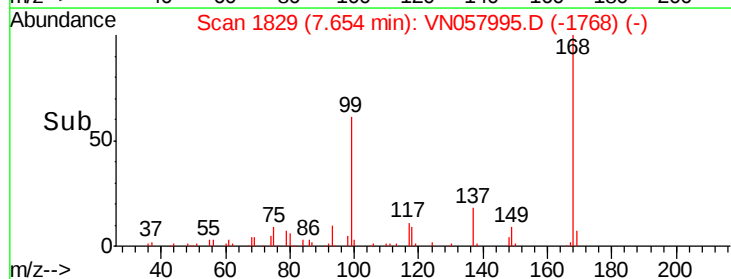
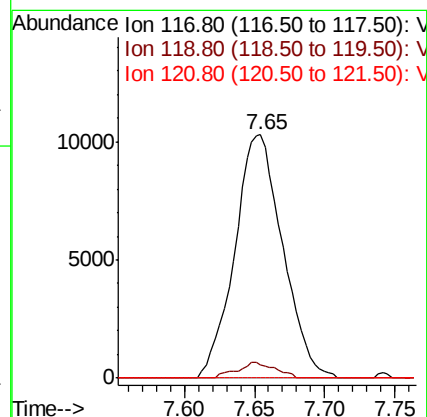
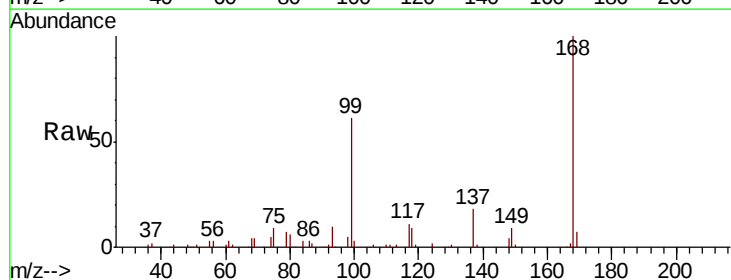
Instrument :
 MSVOA_N
 ClientSampled :
 T3-3-(0)

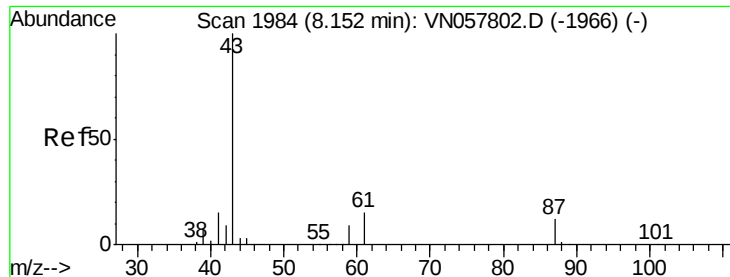
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.3	48.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.388 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN057995.D
 Acq: 13 Sep 2019 1:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	76.9	115.3#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 12.570 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057995.D

Acq: 13 Sep 2019 1:15

Instrument :

MSVOA_N

ClientSampleId :

T3-3-(0)

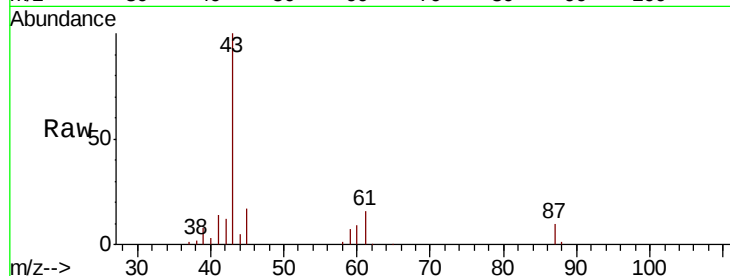
Tgt Ion: 43 Resp: 108663

Ion Ratio Lower Upper

43 100

61 14.7 20.1 30.1#

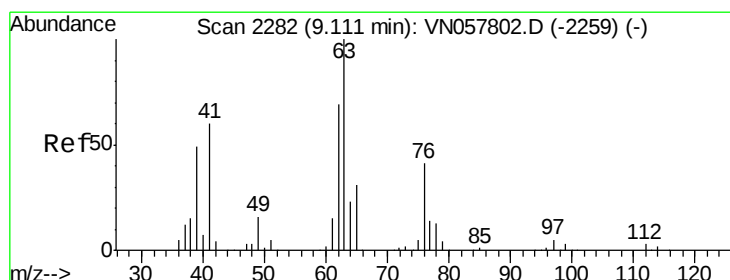
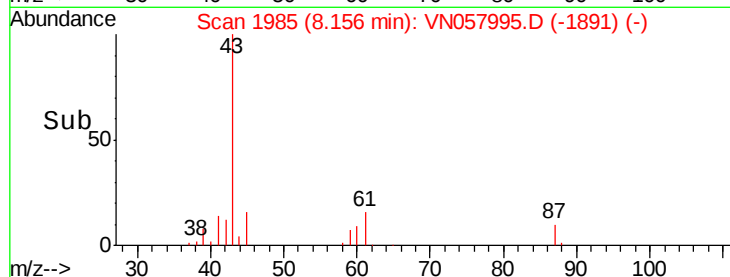
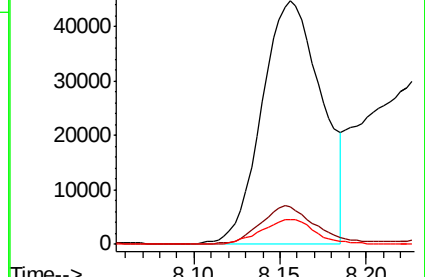
87 9.2 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN057802.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN057802.D (-1966) (-)



#45

1,2-Dichloropropane

Concen: 0.293 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.14 min

Lab File: VN057995.D

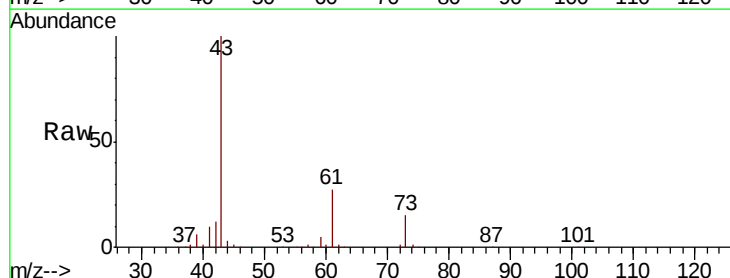
Acq: 13 Sep 2019 1:15

Tgt Ion: 63 Resp: 1279

Ion Ratio Lower Upper

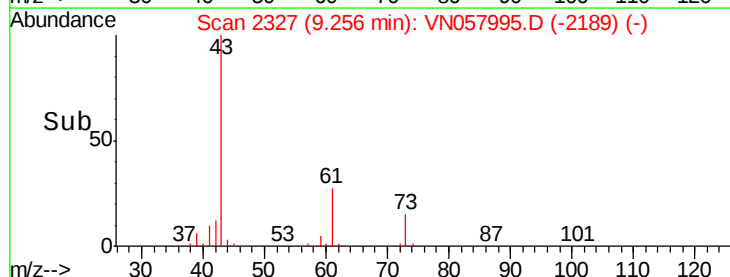
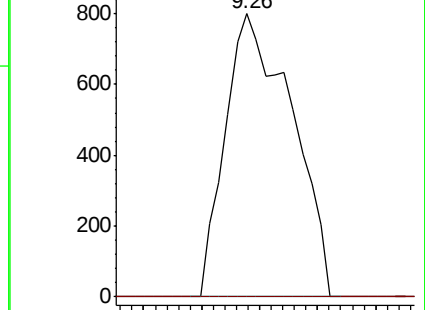
63 100

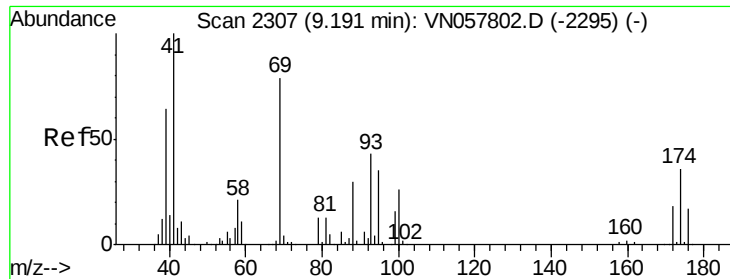
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN057802.D (-2259) (-)

Ion 64.90 (64.60 to 65.60): VN057802.D (-2259) (-)

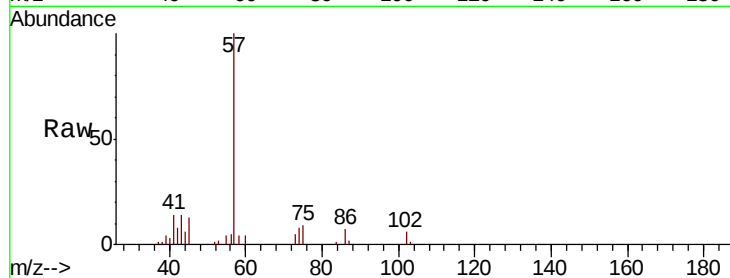




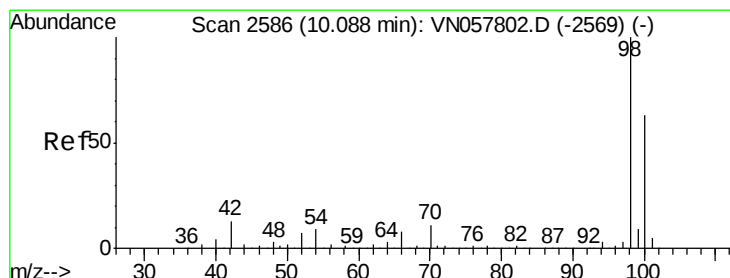
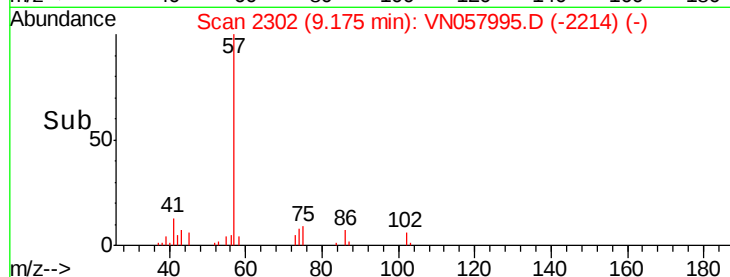
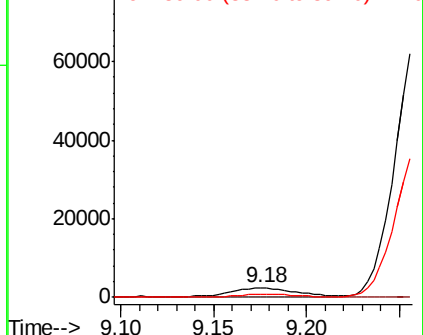
#48
Methyl methacrylate
Concen: 1.175 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057995.D
Acq: 13 Sep 2019 1:15

Instrument :
MSVOA_N
ClientSampleId :
T3-3-(0)

Tgt Ion: 41 Resp: 5154
Ion Ratio Lower Upper
41 100
69 0.7 62.7 94.1#
39 0.0 52.7 79.1#

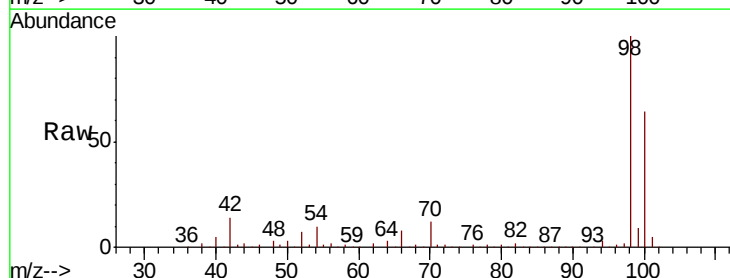


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

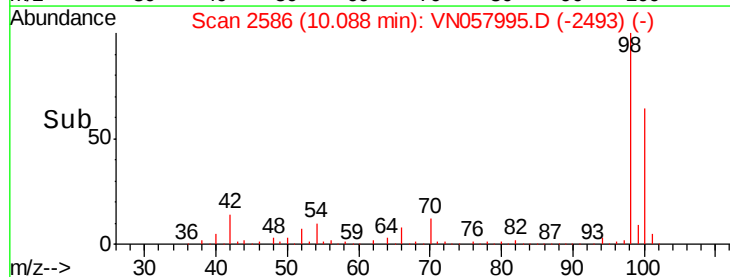
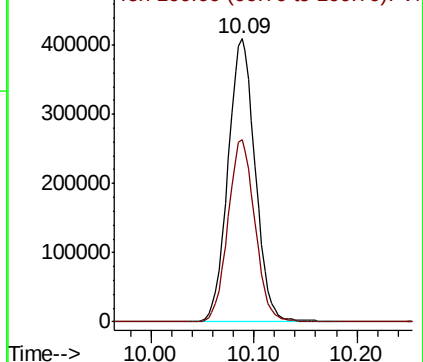


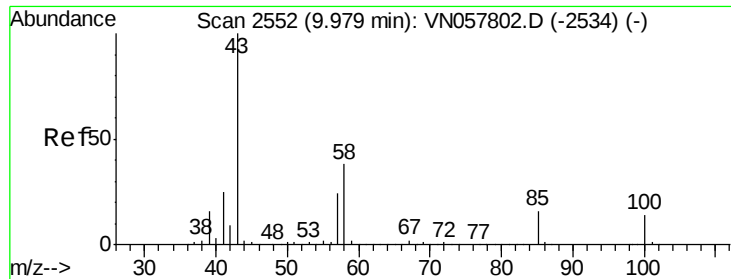
#50
Toluene-d8
Concen: 49.033 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057995.D
Acq: 13 Sep 2019 1:15

Tgt Ion: 98 Resp: 753779
Ion Ratio Lower Upper
98 100
100 63.7 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.376 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN057995.D

Acq: 13 Sep 2019 1:15

Instrument :

MSVOA_N

ClientSampled :

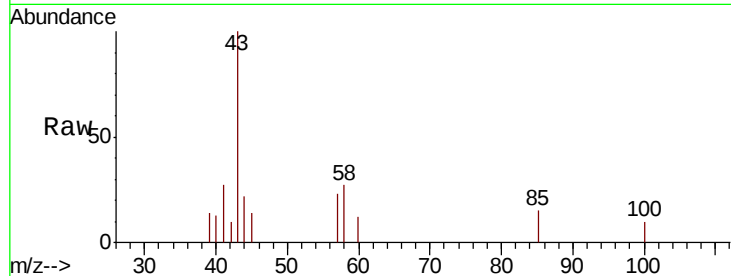
T3-3-(0)

Tgt Ion: 43 Resp: 7037

Ion Ratio Lower Upper

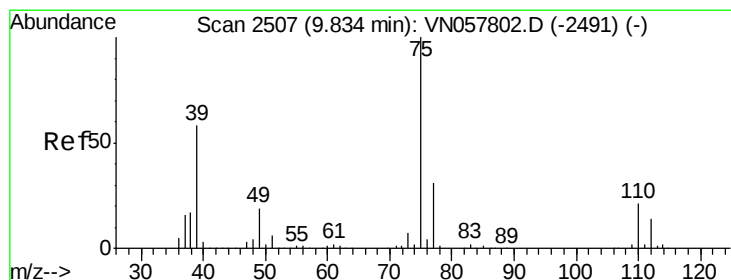
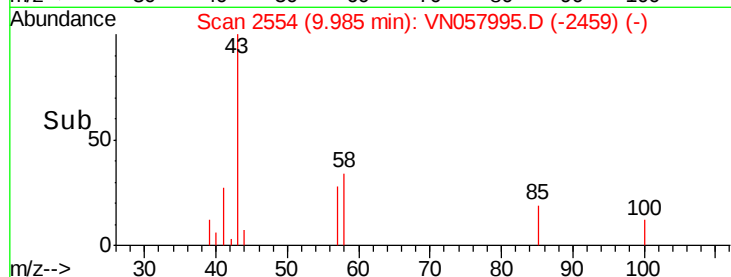
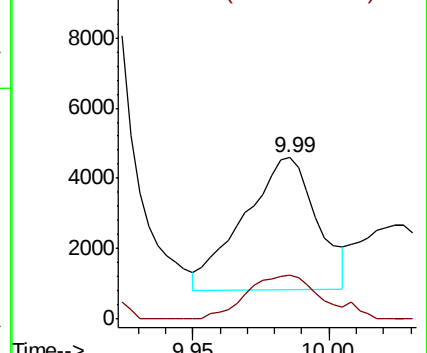
43 100

58 34.4 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.096 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN057995.D

Acq: 13 Sep 2019 1:15

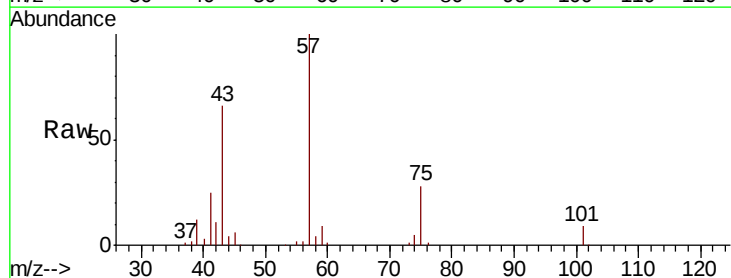
Tgt Ion: 75 Resp: 37278

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

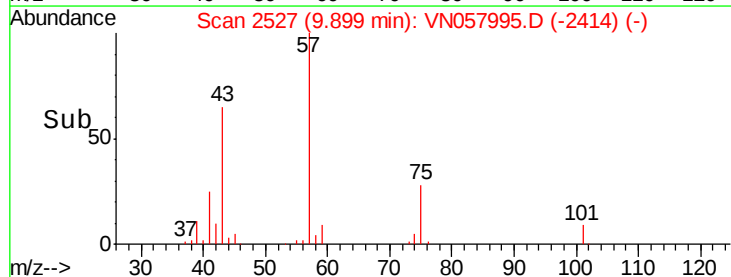
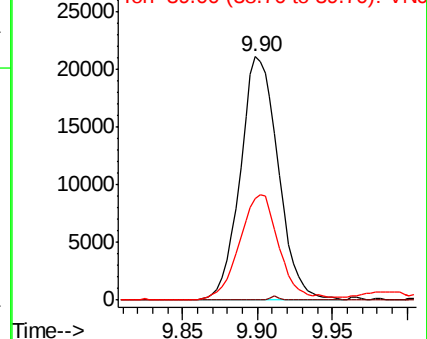
39 41.6 46.2 69.4#

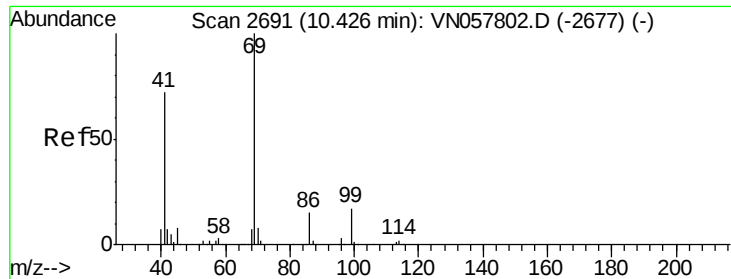


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.330 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN057995.D

Acq: 13 Sep 2019 1:15

Instrument :

MSVOA_N

ClientSampled :

T3-3-(0)

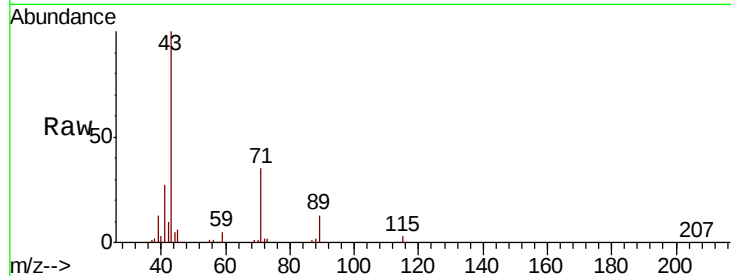
Tgt Ion: 69 Resp: 1986

Ion Ratio Lower Upper

69 100

41 4722.3 56.7 85.1#

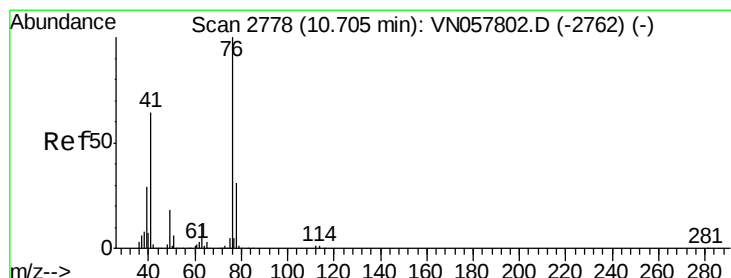
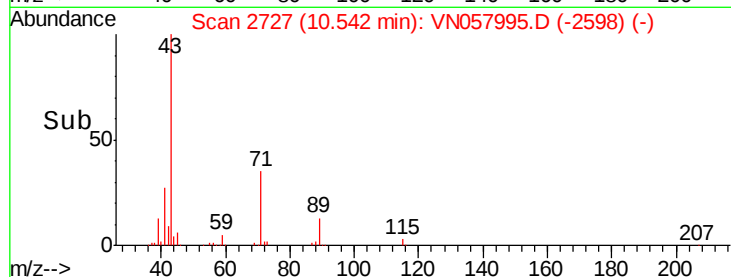
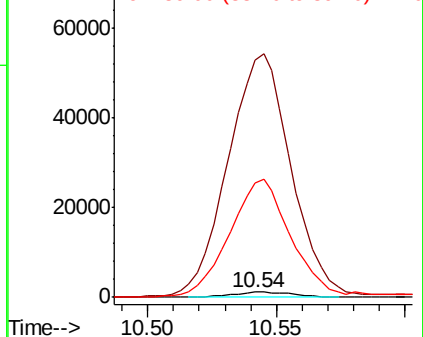
39 2186.5 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.806 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057995.D

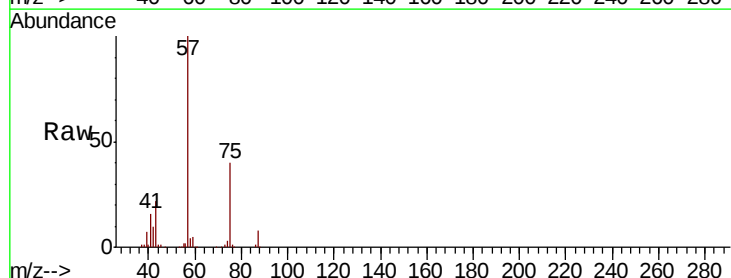
Acq: 13 Sep 2019 1:15

Tgt Ion: 76 Resp: 5553

Ion Ratio Lower Upper

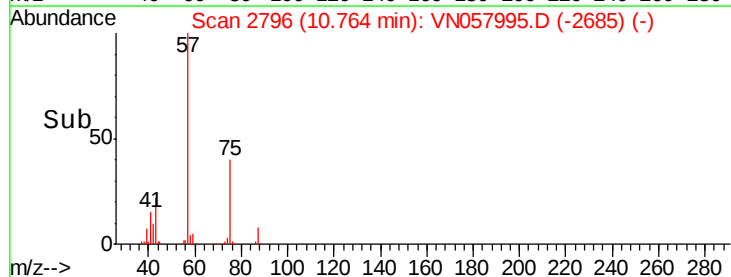
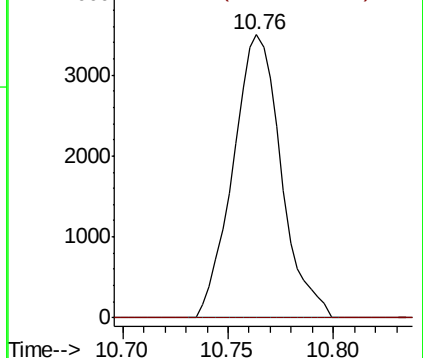
76 100

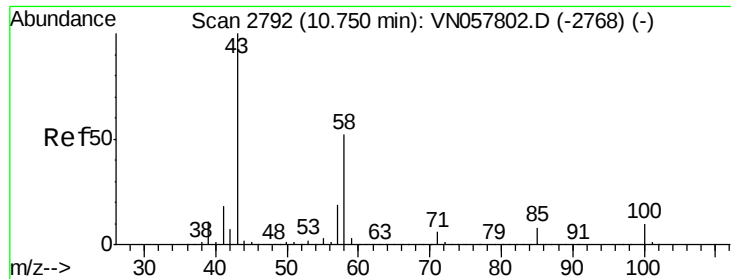
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

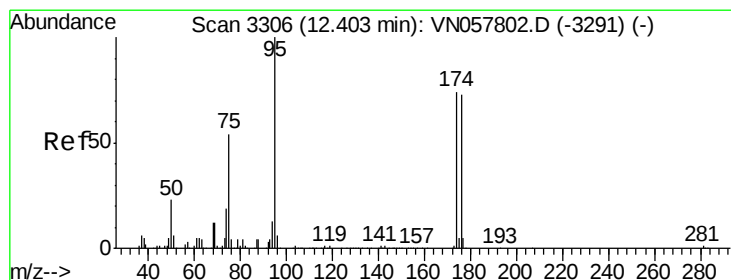
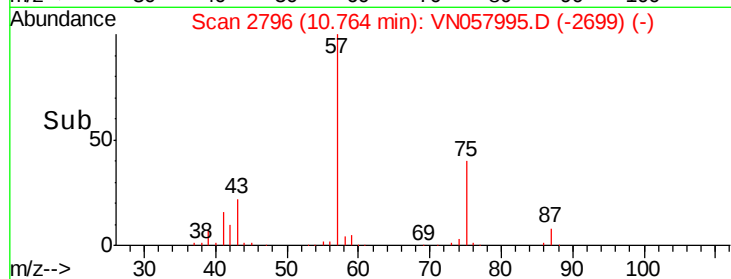
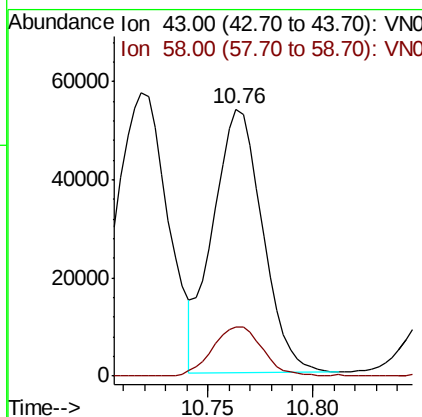
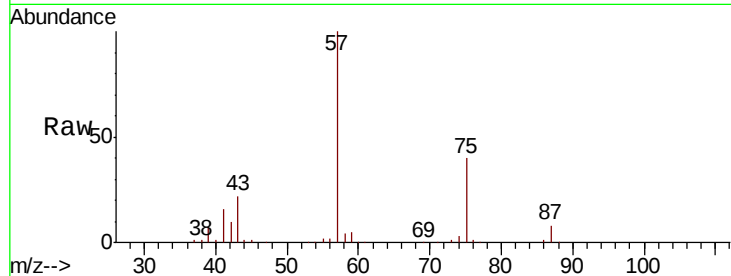




#59
 2-Hexanone
 Concen: 22.834 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057995.D
 Acq: 13 Sep 2019 1:15

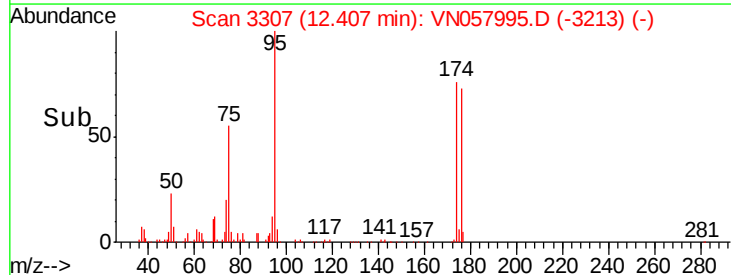
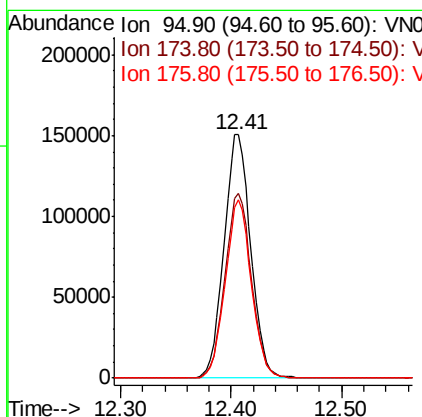
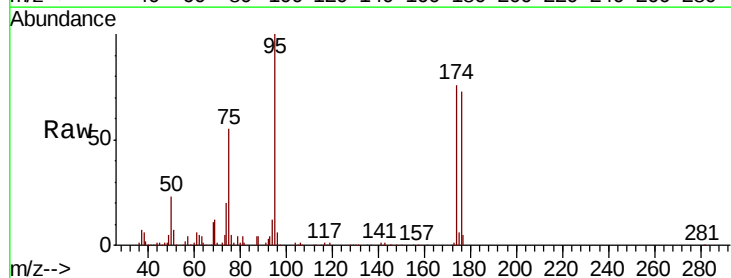
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-3-(0)

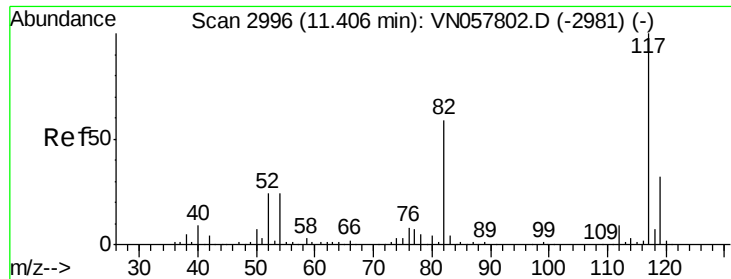
Tgt Ion: 43 Resp: 87550
 Ion Ratio Lower Upper
 43 100
 58 19.1 25.6 76.8#



#62
 4-Bromofluorobenzene
 Concen: 43.123 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN057995.D
 Acq: 13 Sep 2019 1:15

Tgt Ion: 95 Resp: 252630
 Ion Ratio Lower Upper
 95 100
 174 75.5 0.0 150.2
 176 71.4 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN057995.D

Acq: 13 Sep 2019 1:15

Instrument :

MSVOA_N

ClientSampleId :

T3-3-(0)

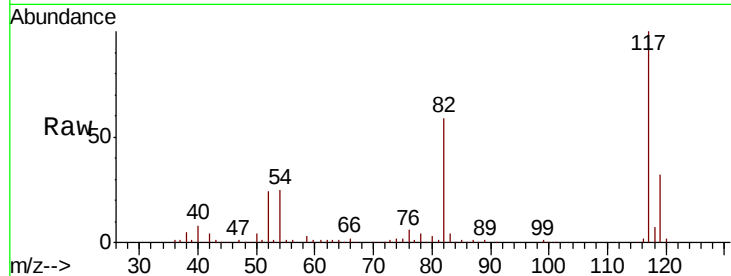
Tgt Ion:117 Resp: 382341

Ion Ratio Lower Upper

117 100

82 59.5 47.2 70.8

119 31.8 25.3 37.9

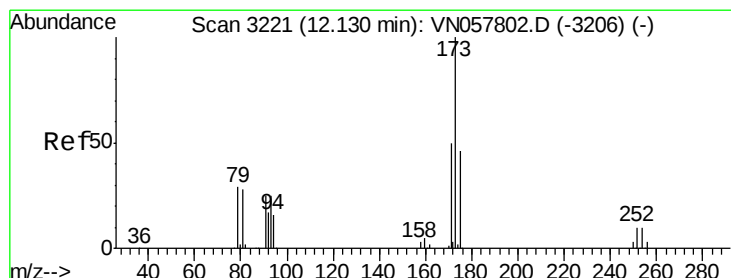
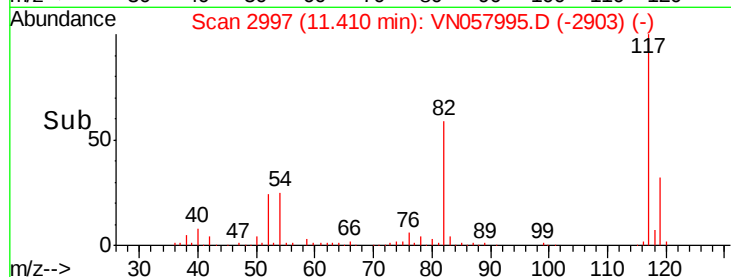
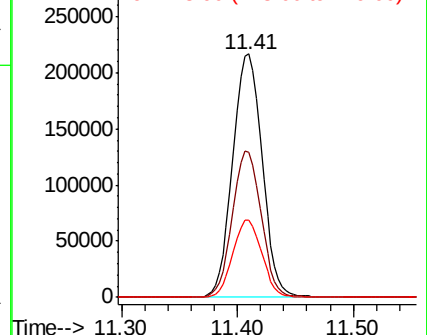


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.579 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN057995.D

Acq: 13 Sep 2019 1:15

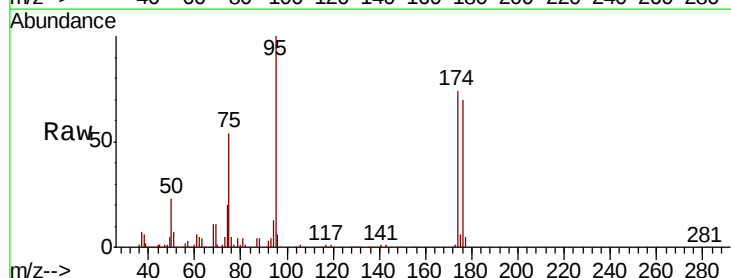
Tgt Ion:173 Resp: 1254

Ion Ratio Lower Upper

173 100

175 1002.6 23.5 70.6#

254 0.0 0.1 0.1#

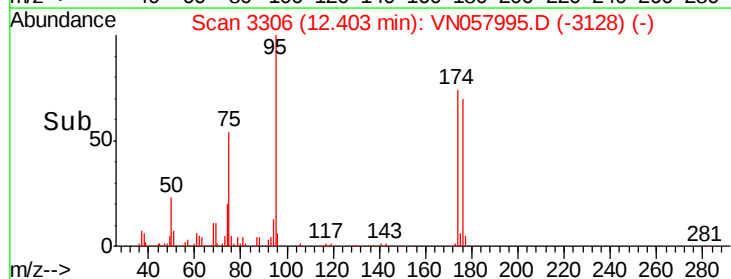
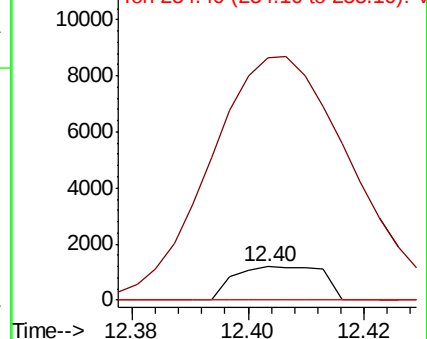


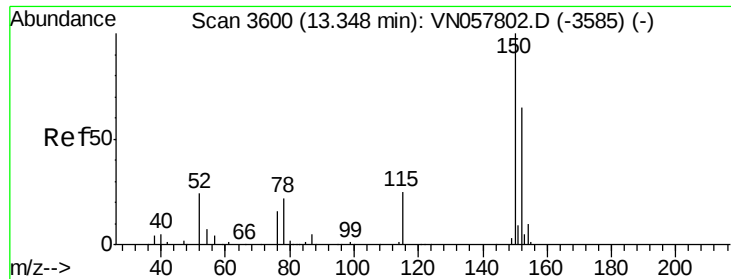
Abundance

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# 3600

Delta R.T. 0.00 min

Lab File: VN057995.D

Acq: 13 Sep 2019 1:15

Instrument :

MSVOA_N

ClientSampleId :

T3-3-(0)

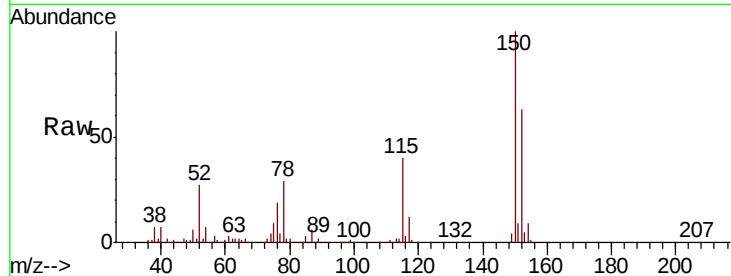
Tgt Ion:152 Resp: 186977

Ion Ratio Lower Upper

152 100

115 60.8 30.3 91.0

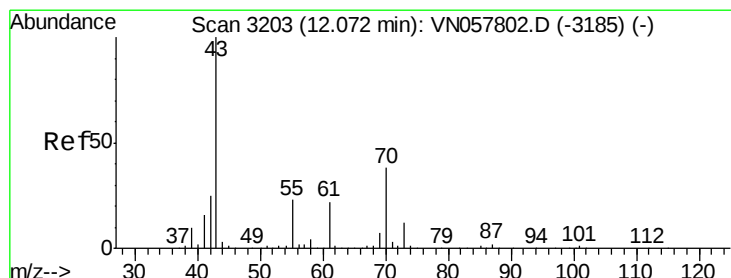
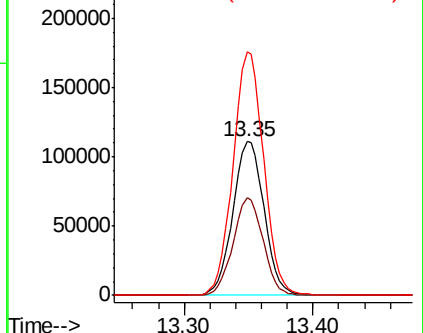
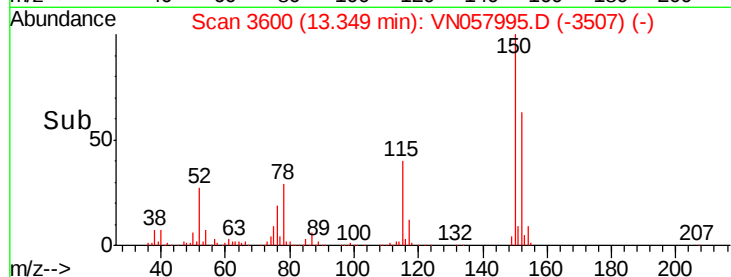
150 155.0 0.0 352.4



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: 0.694 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057995.D

Acq: 13 Sep 2019 1:15

Tgt Ion: 43 Resp: 4382

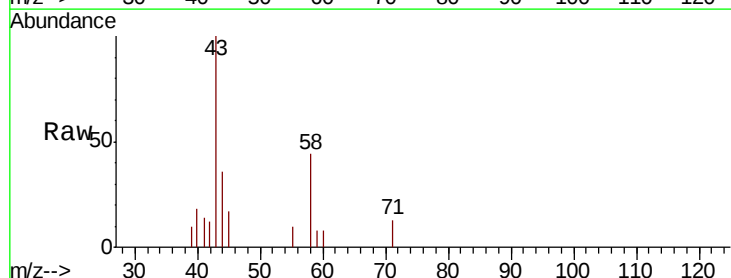
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 7.9 18.6 27.8#

61 0.0 17.4 26.2#

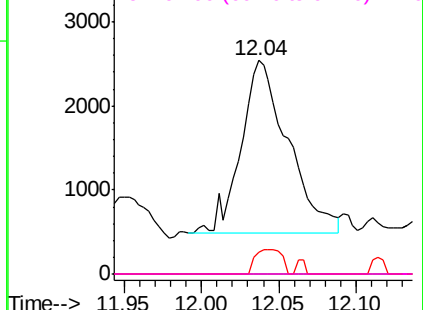
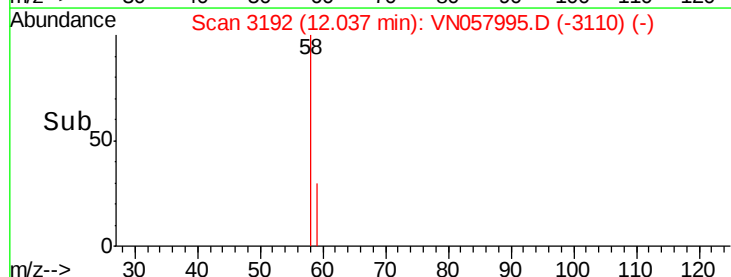


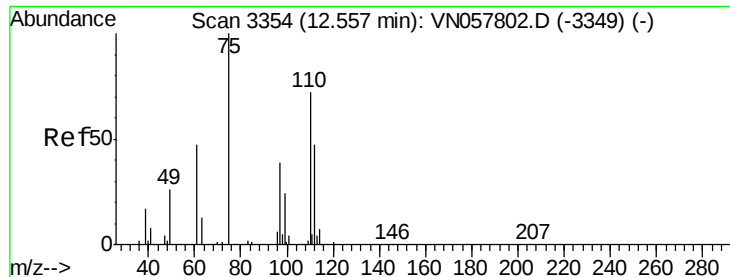
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 32.924 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057995.D

Acq: 13 Sep 2019 1:15

Instrument :

MSVOA_N

ClientSampleId :

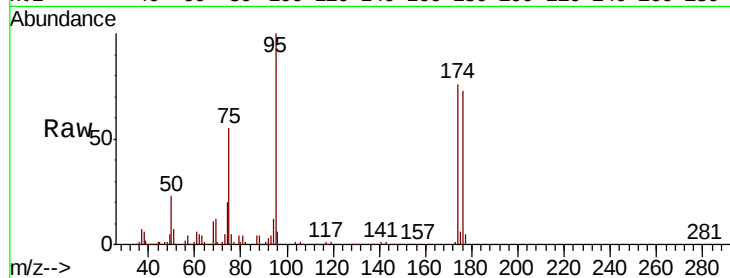
T3-3-(0)

Tgt Ion: 75 Resp: 139258

Ion Ratio Lower Upper

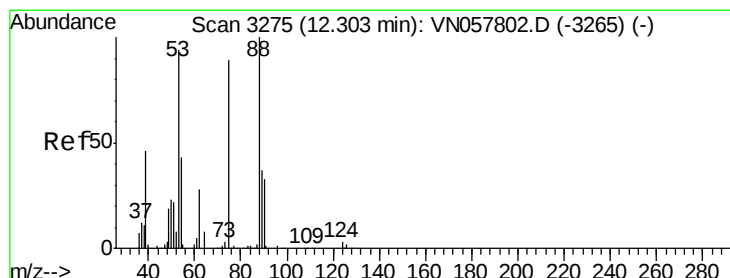
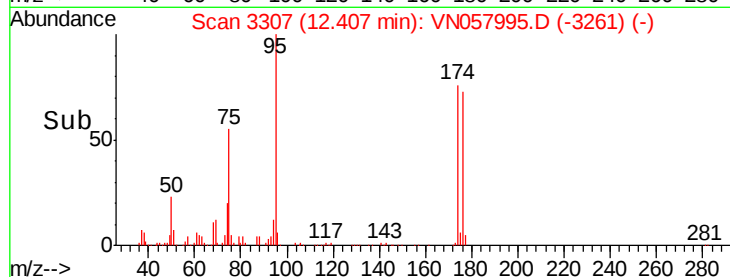
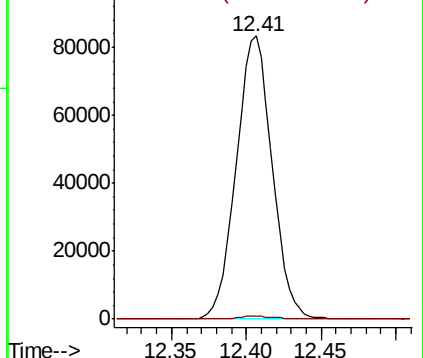
75 100

77 1.1 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: 115.858 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN057995.D

Acq: 13 Sep 2019 1:15

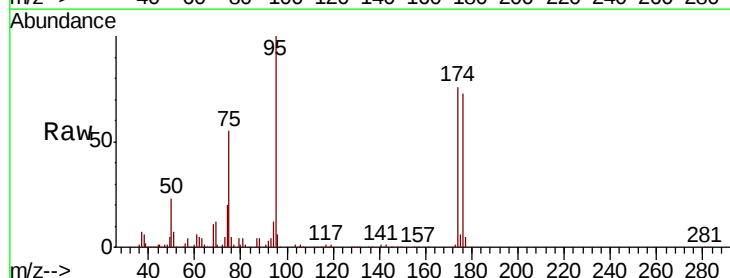
Tgt Ion: 75 Resp: 139258

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

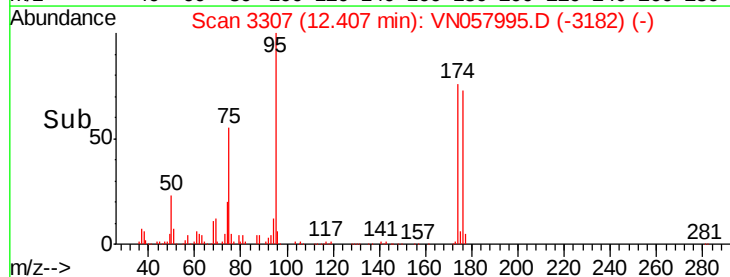
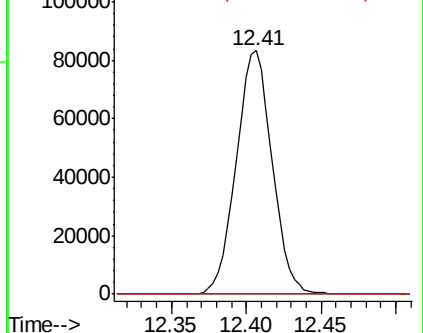
89 0.0 35.3 52.9#

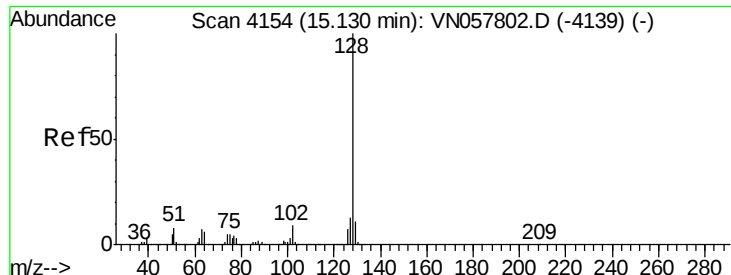


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

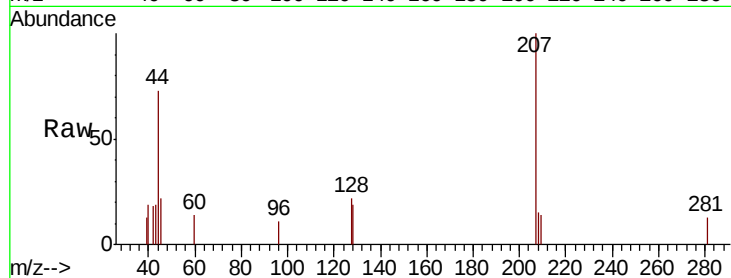




#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN057995.D
Acq: 13 Sep 2019 1:15

Instrument :
MSVOA_N
ClientSampleId :
T3-3-(0)

Tgt Ion:128 Resp: 567
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
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

