

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083119\
 Data File : VN057599.D
 Acq On : 30 Aug 2019 20:03
 Operator : JC/SP
 Sample : K4517-22
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-S-A2-(2.5)

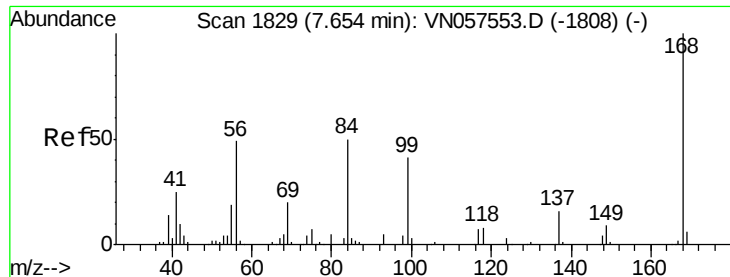
Quant Time: Aug 31 00:50:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 11:59:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	567732	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	885682	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	764863	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	203303	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	340767	36.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.34%	
35) Dibromofluoromethane	7.58	113	261185	32.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	65.98%	
50) Toluene-d8	10.09	98	1079704	38.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.12%	
62) 4-Bromofluorobenzene	12.40	95	287143	30.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	61.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	706	0.770	ug/l #	70
16) Acetone	3.81	43	12340	3.285	ug/l	97
18) Methyl Acetate	4.31	43	4245	Below Cal	#	64
20) Methylene Chloride	4.53	84	13515	1.942	ug/l #	76
25) 2-Butanone	6.84	43	1013	0.342	ug/l #	91
31) Cyclohexane	7.65	56	11739	1.088	ug/l #	17
36) 1,1-Dichloropropene	7.65	75	41501	4.332	ug/l #	52
38) Carbon Tetrachloride	7.65	117	54459	4.861	ug/l #	16
41) Methacrylonitrile	7.12	41	151	1.317	ug/l #	38
43) Isopropyl Acetate	8.16	43	76733	6.476	ug/l #	94
48) Methyl methacrylate	9.18	41	3840	0.686	ug/l #	15
49) 1,4-Dioxane	9.26	88	146	1.430	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	3666	0.579	ug/l #	68
54) cis-1,3-Dichloropropene	9.90	75	38807	3.345	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	5686	0.487	ug/l #	43
59) 2-Hexanone	10.76	43	75305	17.224	ug/l #	58
71) Bromoform	12.40	173	2275	0.450	ug/l #	1
73) Isopropylbenzene	12.25	105	130	Below Cal		94
74) N-amyl acetate	12.03	43	1610	Below Cal	#	50
75) 1,1,2,2-Tetrachloroethane	12.51	83	61	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	157419	41.538	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	157419	116.429	ug/l #	8
83) tert-Butylbenzene	13.00	119	264	Below Cal	#	22
93) 1,2,4-Trichlorobenzene	14.92	180	439	3.927	ug/l #	58

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057599.D

Acq: 30 Aug 2019 20:03

Instrument :

MSVOA_N

ClientSampled :

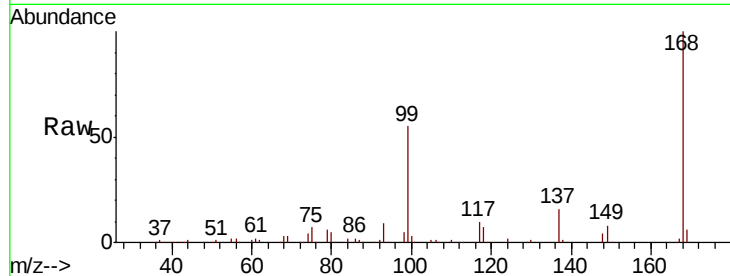
T2-S-A2-(2.5)

Tgt Ion:168 Resp: 567732

Ion Ratio Lower Upper

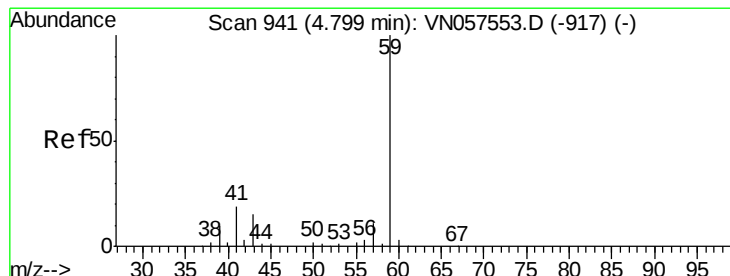
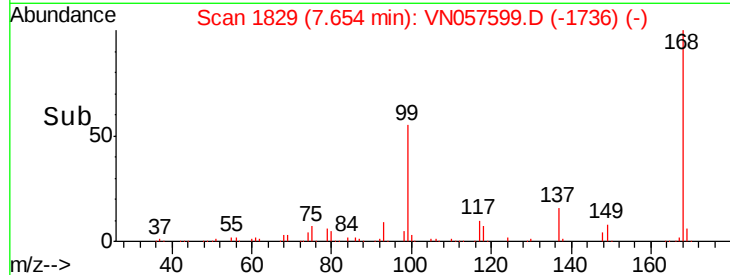
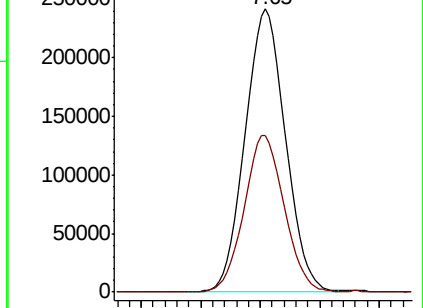
168 100

99 55.2 50.6 76.0



Abundance Ion 167.90 (167.60 to 168.60): VN057599.D (-1736) (-)

Ion 98.90 (98.60 to 99.60): VN057599.D (-1736) (-)



#11

Tert butyl alcohol

Concen: 0.770 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.06 min

Lab File: VN057599.D

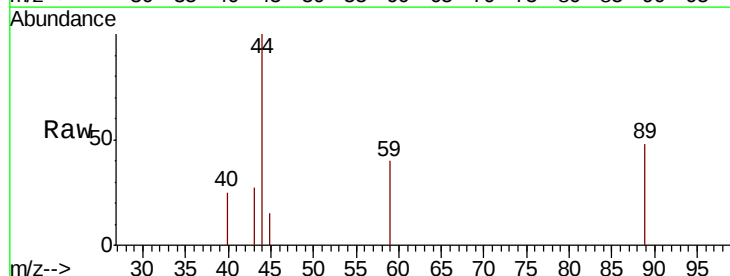
Acq: 30 Aug 2019 20:03

Tgt Ion: 59 Resp: 706

Ion Ratio Lower Upper

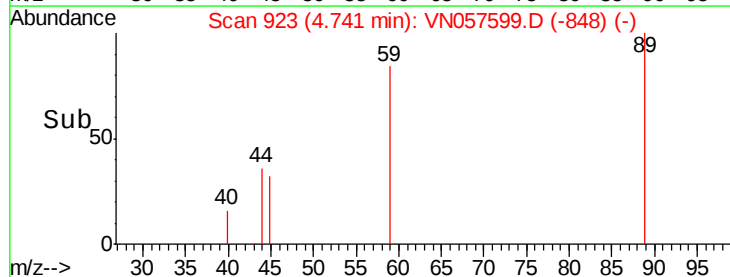
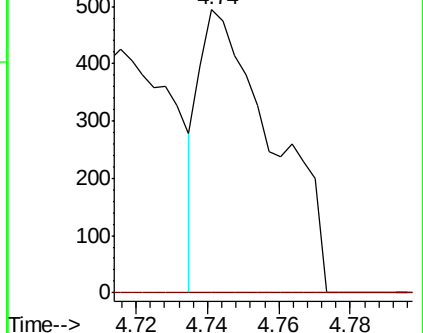
59 100

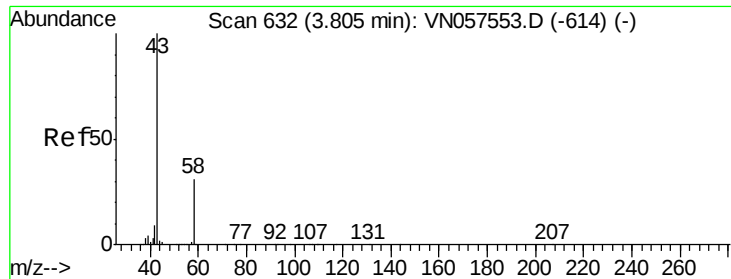
57 0.0 9.1 13.7#



Abundance Ion 59.00 (58.70 to 59.70): VN057599.D (-848) (-)

Ion 57.00 (56.70 to 57.70): VN057599.D (-848) (-)

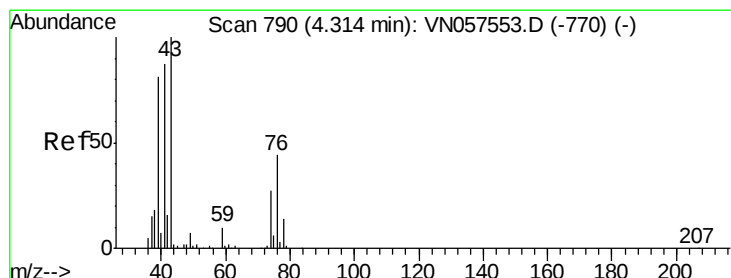
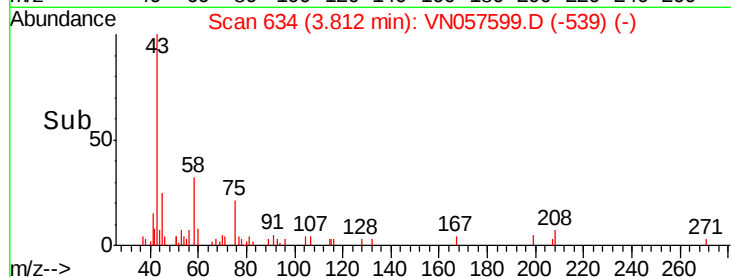
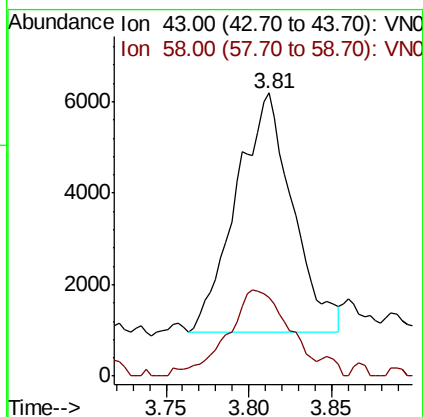
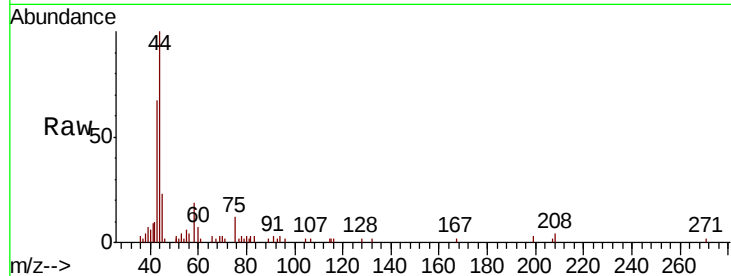




#16
Acetone
Concen: 3.285 ug/l
RT: 3.81 min Scan# 634
Delta R.T. 0.01 min
Lab File: VN057599.D
Acq: 30 Aug 2019 20:03

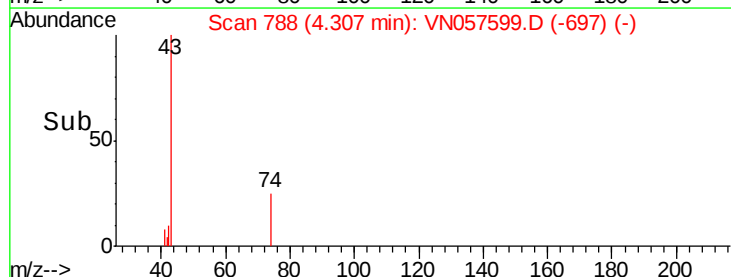
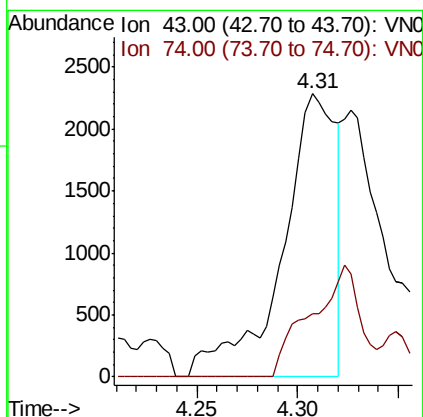
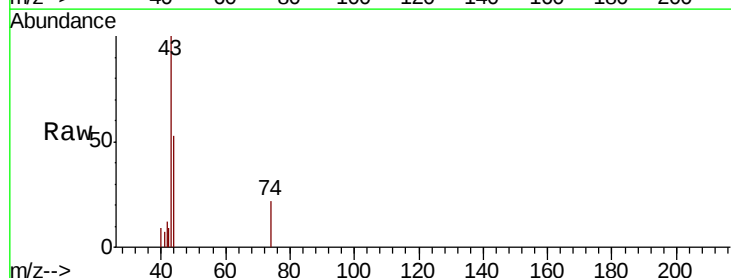
Instrument :
MSVOA_N
ClientSampleId :
T2-S-A2-(2.5)

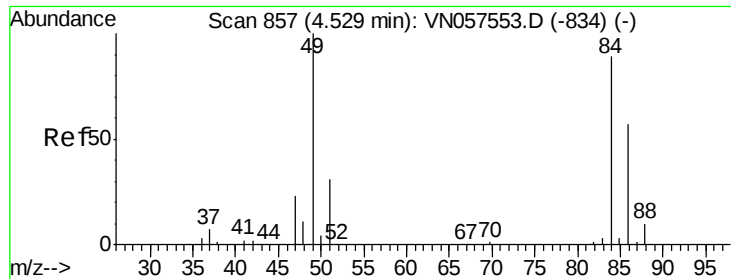
Tgt Ion: 43 Resp: 12340
Ion Ratio Lower Upper
43 100
58 29.3 22.1 33.1



#18
Methyl Acetate
Concen: Below Cal
RT: 4.31 min Scan# 788
Delta R.T. -0.01 min
Lab File: VN057599.D
Acq: 30 Aug 2019 20:03

Tgt Ion: 43 Resp: 4245
Ion Ratio Lower Upper
43 100
74 36.2 15.9 23.9#

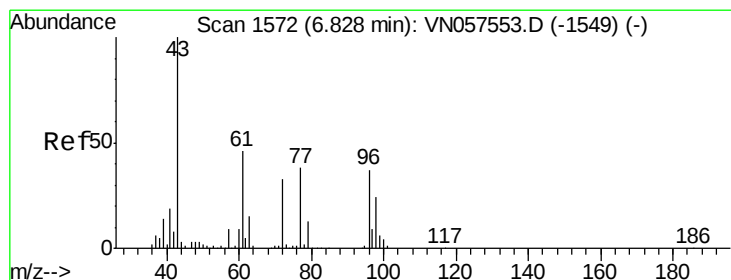
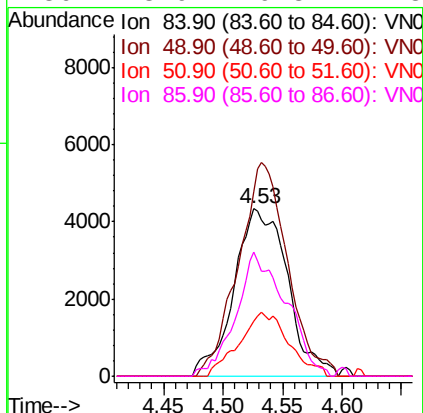
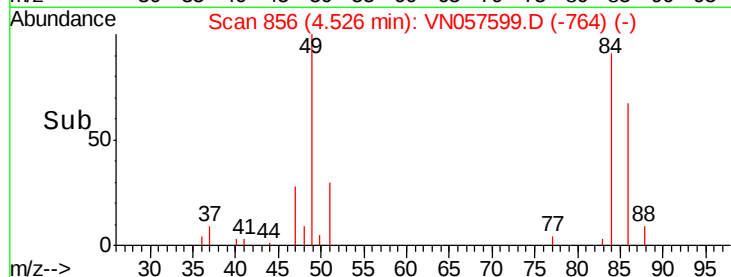
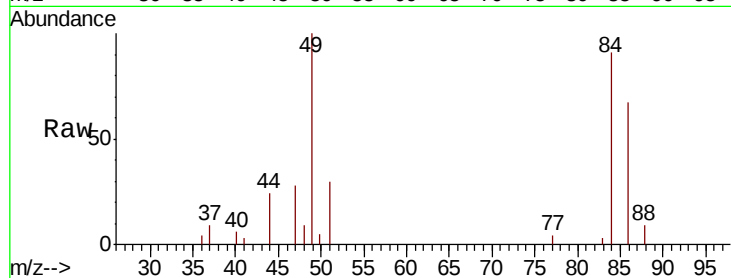




#20
Methylene Chloride
Concen: 1.942 ug/l
RT: 4.53 min Scan# 856
Delta R.T. -0.00 min
Lab File: VN057599.D
Acq: 30 Aug 2019 20:03

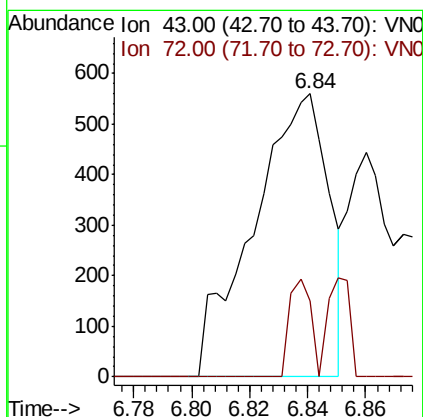
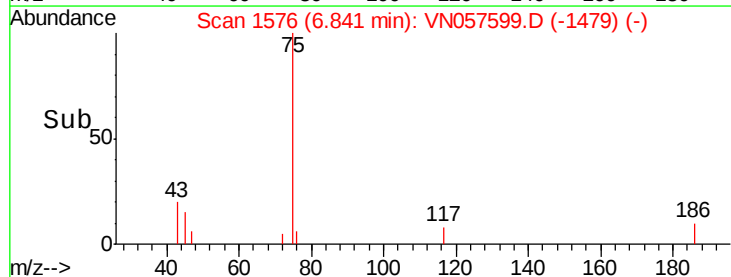
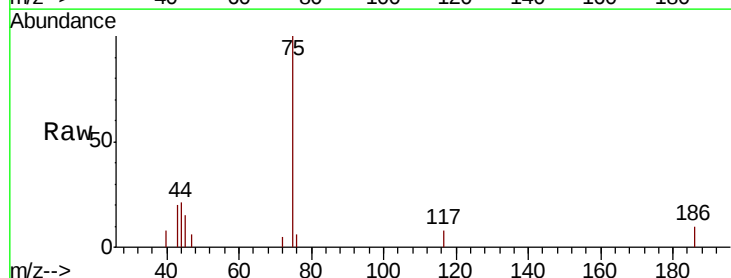
Instrument :
MSVOA_N
ClientSampled :
T2-S-A2-(2.5)

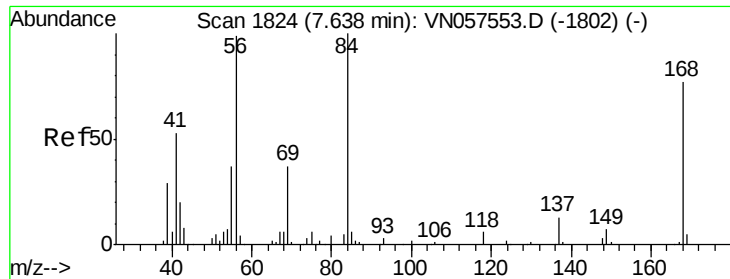
Tgt Ion: 84 Resp: 13515
Ion Ratio Lower Upper
84 100
49 110.2 117.0 175.4#
51 32.7 35.5 53.3#
86 73.9 49.8 74.8



#25
2-Butanone
Concen: 0.342 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN057599.D
Acq: 30 Aug 2019 20:03

Tgt Ion: 43 Resp: 1013
Ion Ratio Lower Upper
43 100
72 26.8 17.8 26.8#

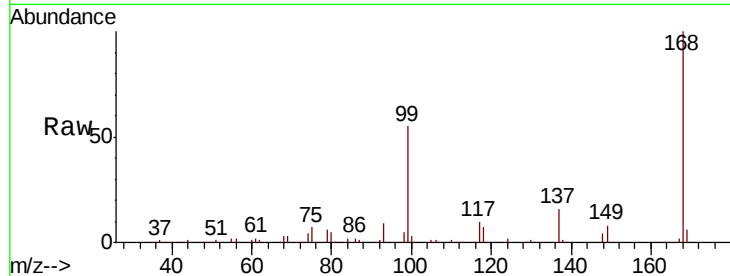




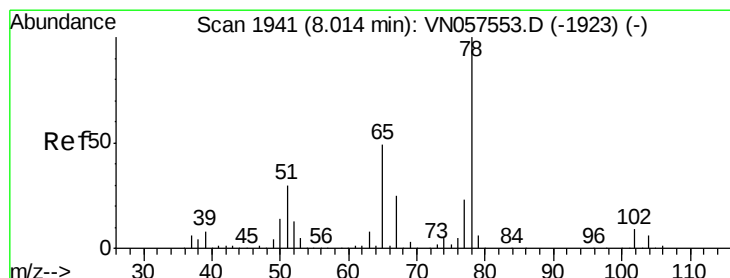
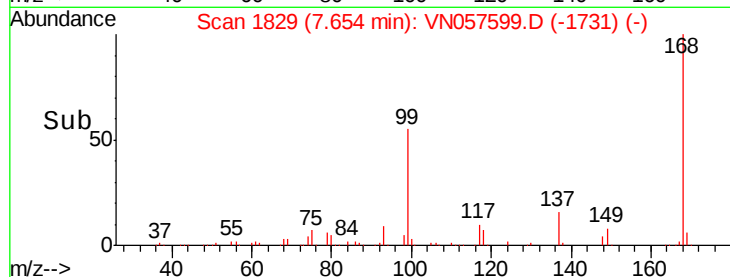
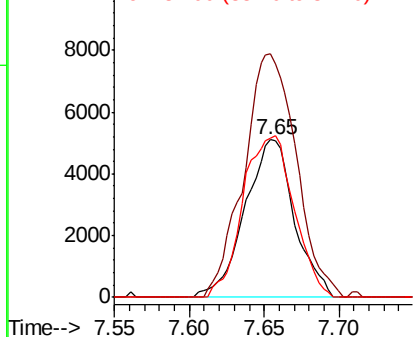
#31
Cyclohexane
Concen: 1.088 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN057599.D
Acq: 30 Aug 2019 20:03

Instrument :
MSVOA_N
ClientSampleId :
T2-S-A2-(2.5)

Tgt Ion: 56 Resp: 11739
Ion Ratio Lower Upper
56 100
69 154.5 25.0 37.6#
84 101.3 62.5 93.7#

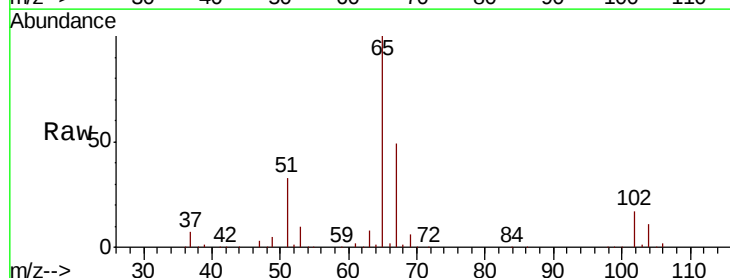


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

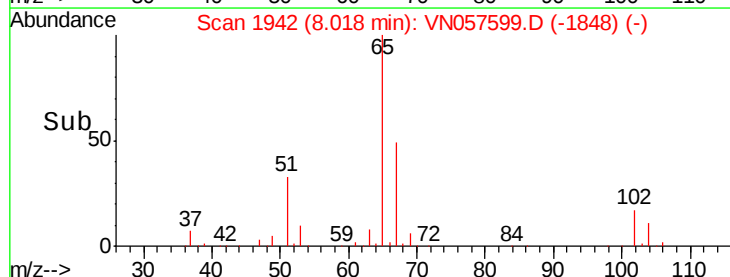
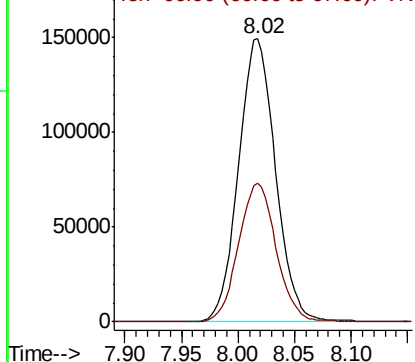


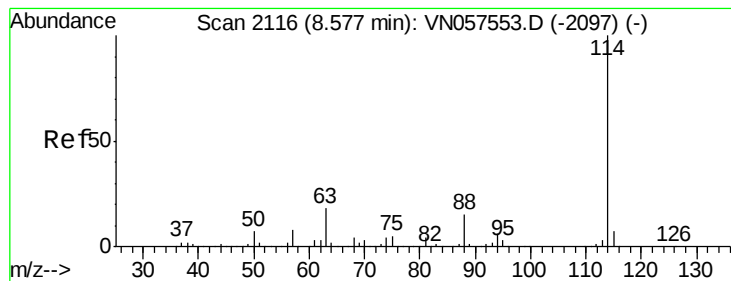
#33
1,2-Dichloroethane-d4
Concen: 36.672 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. 0.00 min
Lab File: VN057599.D
Acq: 30 Aug 2019 20:03

Tgt Ion: 65 Resp: 340767
Ion Ratio Lower Upper
65 100
67 50.0 0.0 103.8



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057599.D

Acq: 30 Aug 2019 20:03

Instrument :

MSVOA_N

ClientSampleId :

T2-S-A2-(2.5)

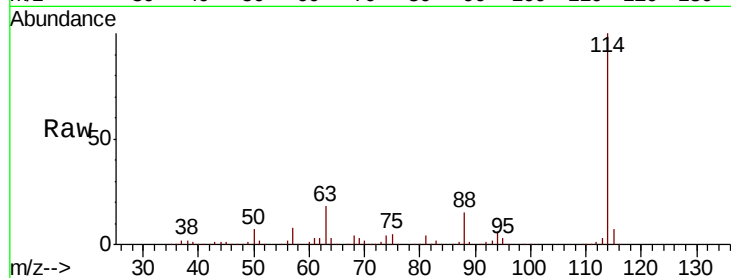
Tgt Ion:114 Resp: 885682

Ion Ratio Lower Upper

114 100

63 18.4 0.0 50.2

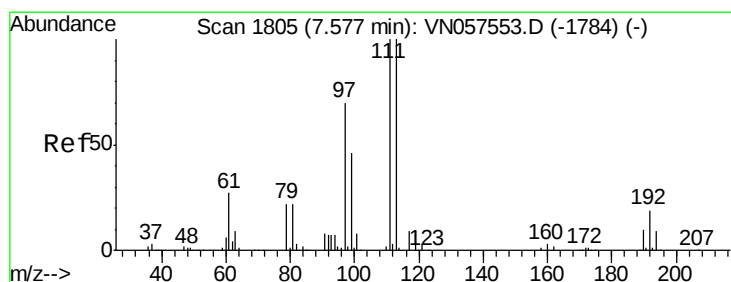
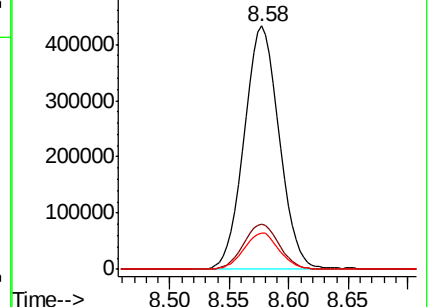
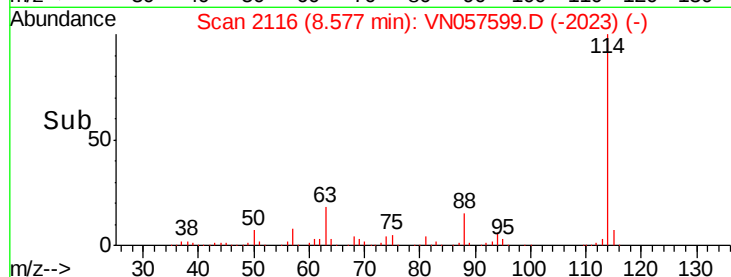
88 14.9 0.0 34.6



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: 32.994 ug/l

RT: 7.58 min Scan# 1806

Delta R.T. 0.00 min

Lab File: VN057599.D

Acq: 30 Aug 2019 20:03

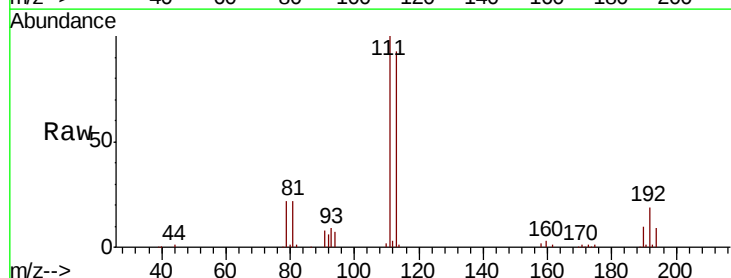
Tgt Ion:113 Resp: 261185

Ion Ratio Lower Upper

113 100

111 105.4 83.8 125.6

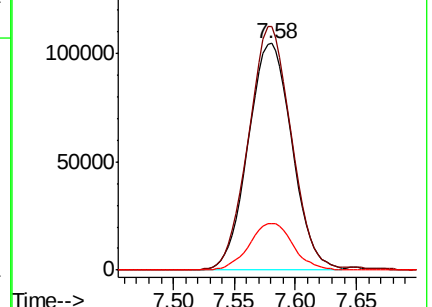
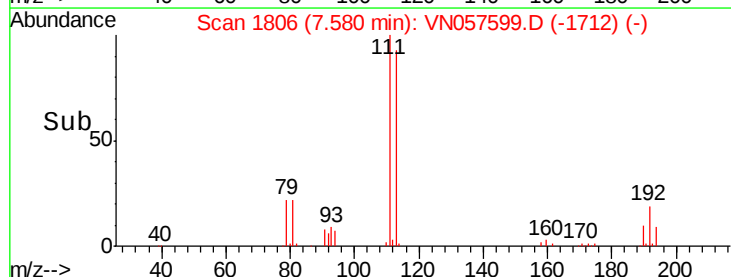
192 20.6 13.5 20.3#

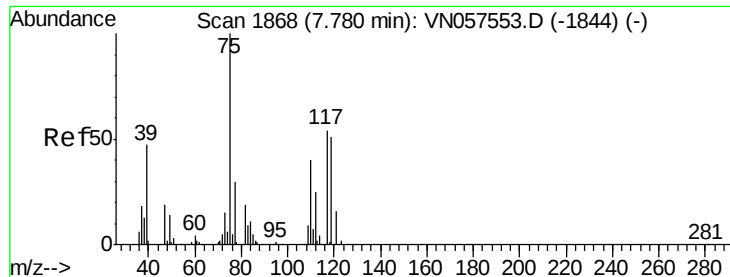


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

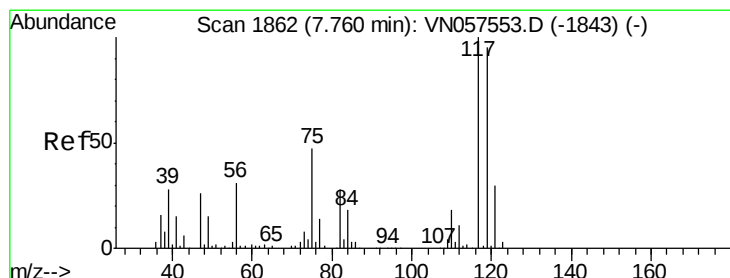
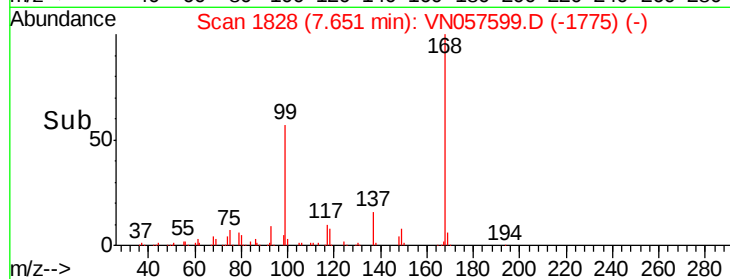
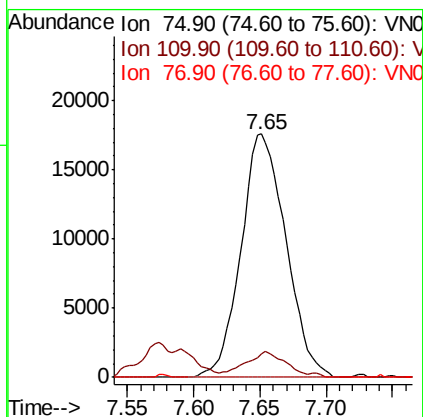
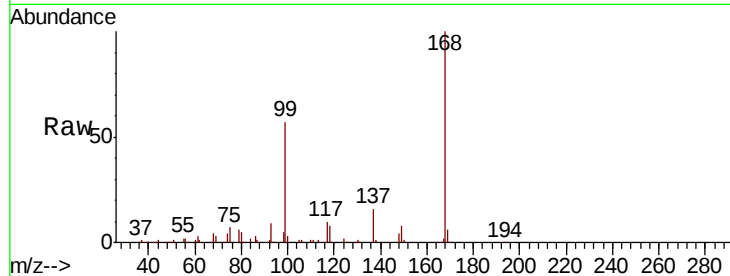




#36
 1,1-Dichloropropene
 Concen: 4.332 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057599.D
 Acq: 30 Aug 2019 20:03

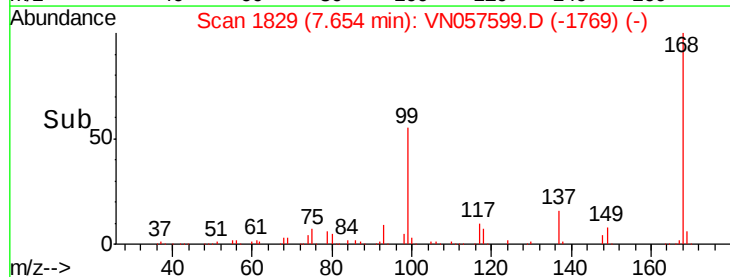
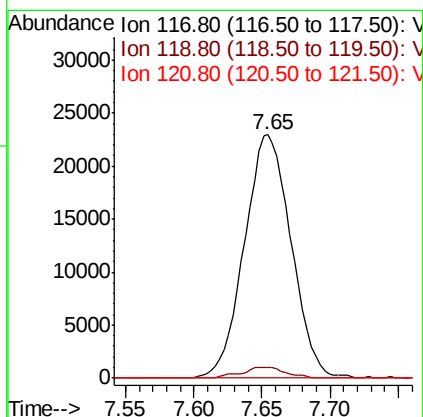
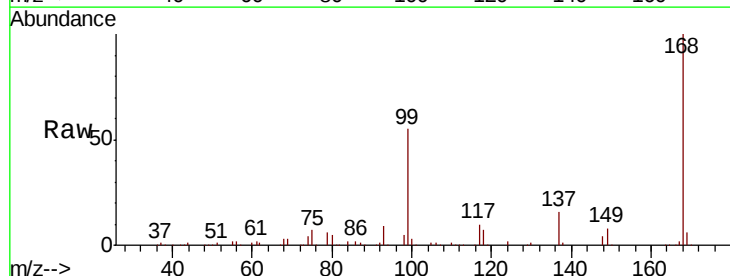
Instrument :
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 T2-S-A2-(2.5)

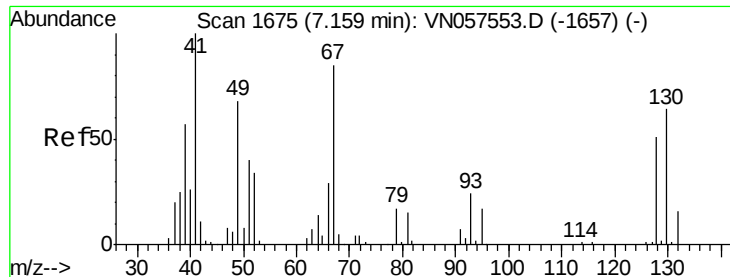
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.0	16.1	48.3#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.861 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.11 min
 Lab File: VN057599.D
 Acq: 30 Aug 2019 20:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.2	114.4#
121	0.0	23.8	35.6#





#41

Methacrylonitrile

Concen: 1.317 ug/l

RT: 7.12 min Scan# 1663

Delta R.T. -0.04 min

Lab File: VN057599.D

Acq: 30 Aug 2019 20:03

Instrument :

MSVOA_N

ClientSampleId :

T2-S-A2-(2.5)

Tgt Ion: 41 Resp: 151

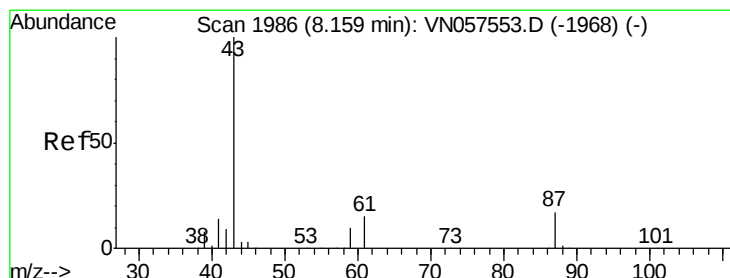
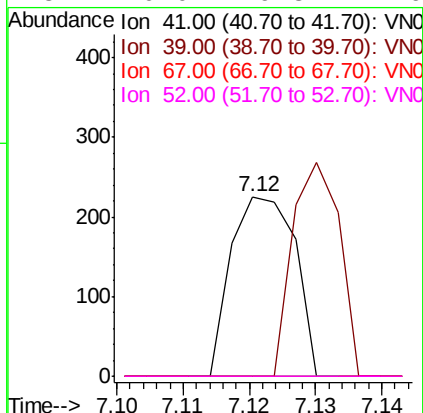
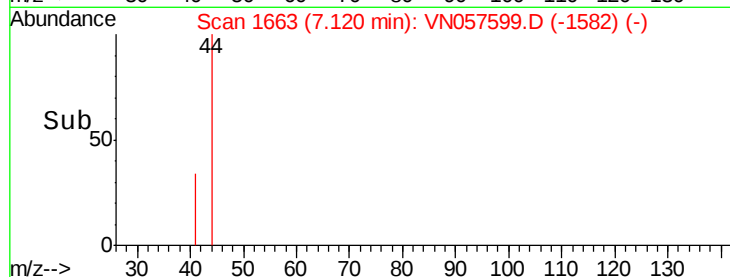
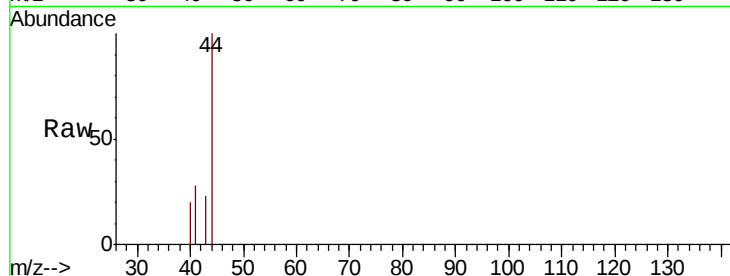
Ion Ratio Lower Upper

41 100

39 88.1 53.6 80.4#

67 0.0 65.4 98.2#

52 0.0 29.8 44.6#



#43

Isopropyl Acetate

Concen: 6.476 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN057599.D

Acq: 30 Aug 2019 20:03

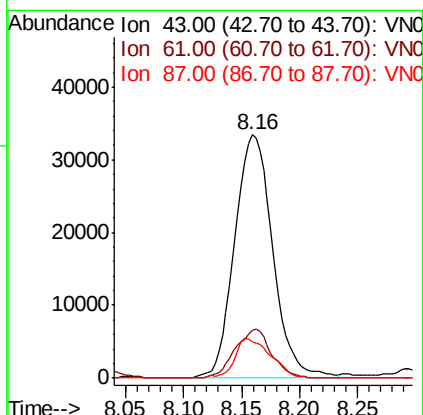
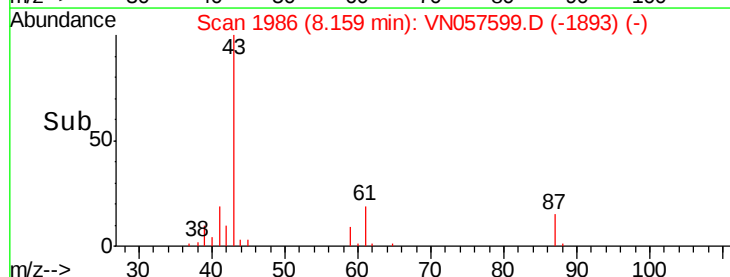
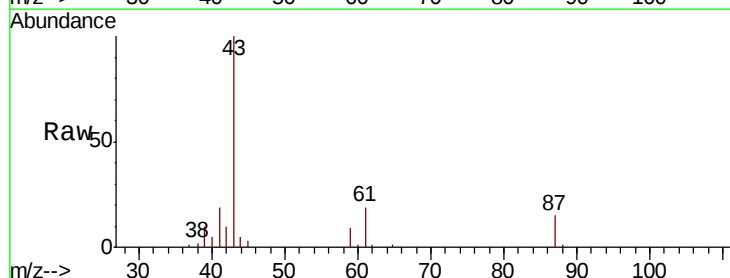
Tgt Ion: 43 Resp: 76733

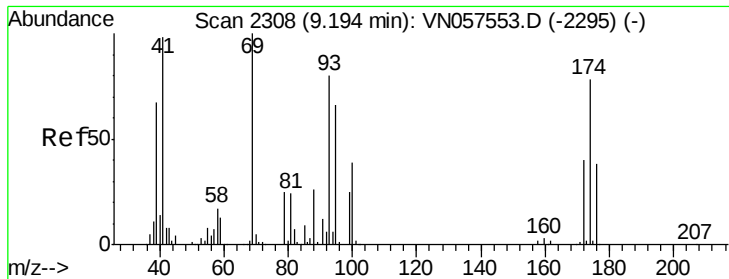
Ion Ratio Lower Upper

43 100

61 19.1 14.5 21.7

87 15.2 8.6 12.8#

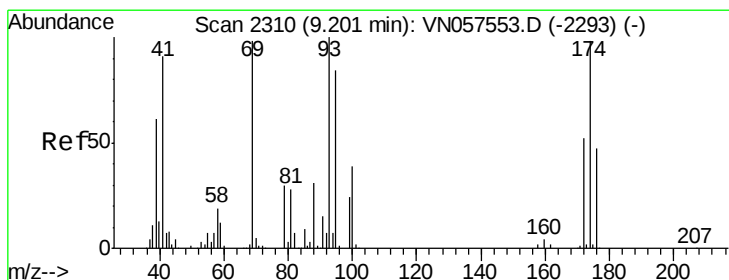
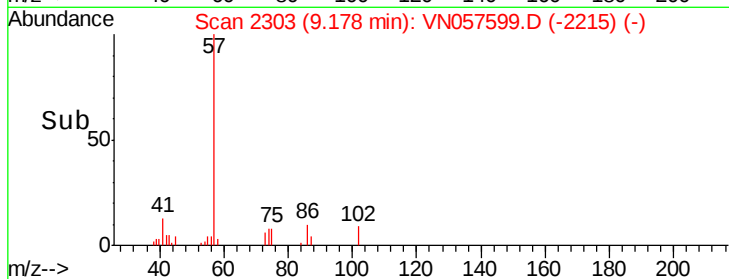
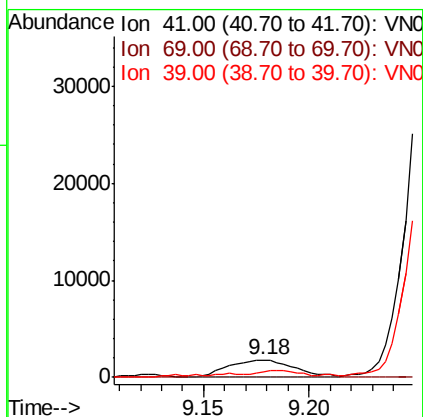
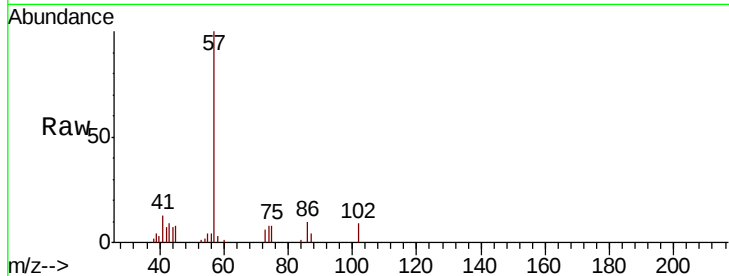




#48
Methyl methacrylate
Concen: 0.686 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN057599.D
Acq: 30 Aug 2019 20:03

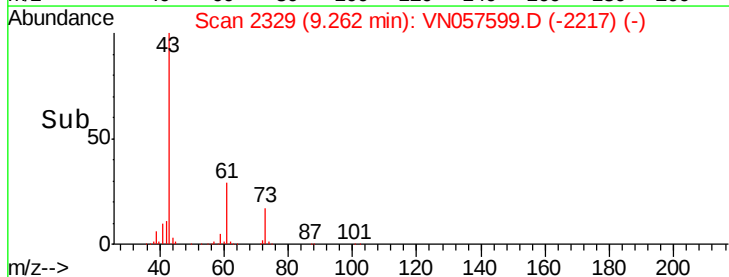
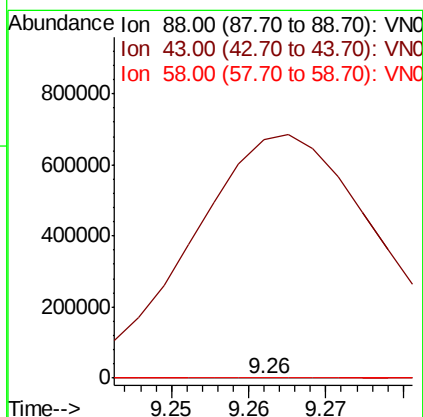
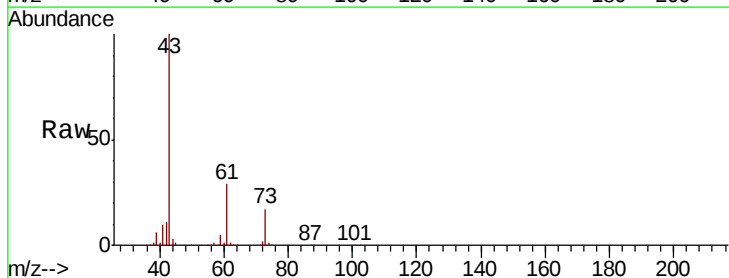
Instrument :
MSVOA_N
ClientSampleId :
T2-S-A2-(2.5)

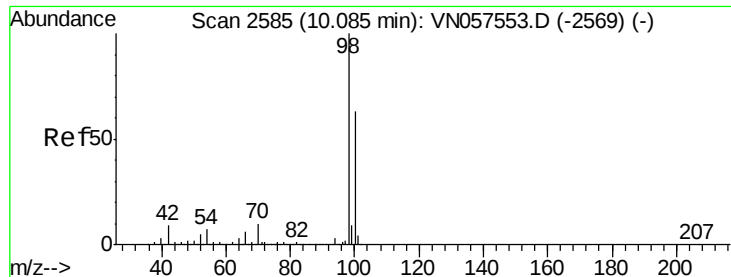
Tgt Ion: 41 Resp: 3840
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 50.6 75.8#



#49
1,4-Dioxane
Concen: 1.430 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.06 min
Lab File: VN057599.D
Acq: 30 Aug 2019 20:03

Tgt Ion: 88 Resp: 146
Ion Ratio Lower Upper
88 100
43 841534.2 31.0 46.6#
58 3795.9 64.5 96.7#





#50

Toluene-d8

Concen: 38.559 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057599.D

Acq: 30 Aug 2019 20:03

Instrument :

MSVOA_N

ClientSampled :

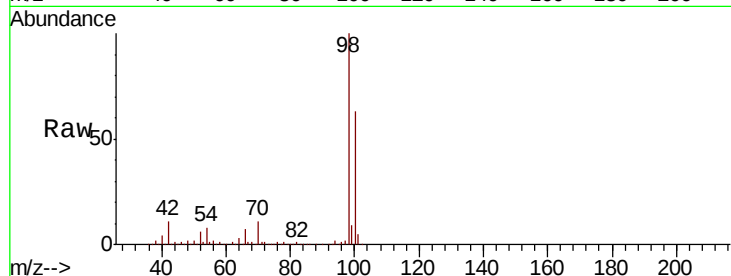
T2-S-A2-(2.5)

Tgt Ion: 98 Resp: 1079704

Ion Ratio Lower Upper

98 100

100 62.6 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

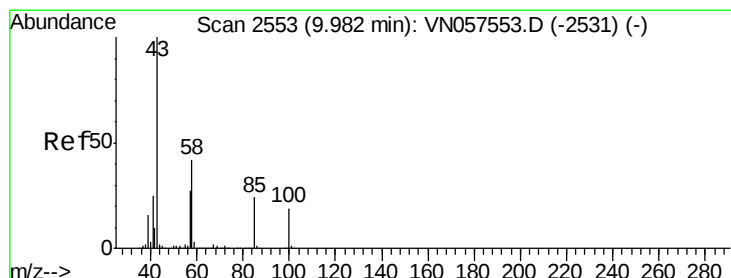
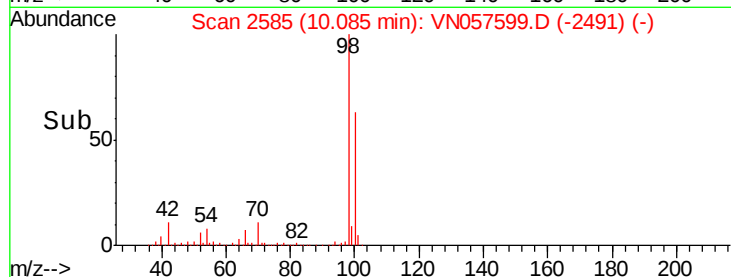
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.579 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN057599.D

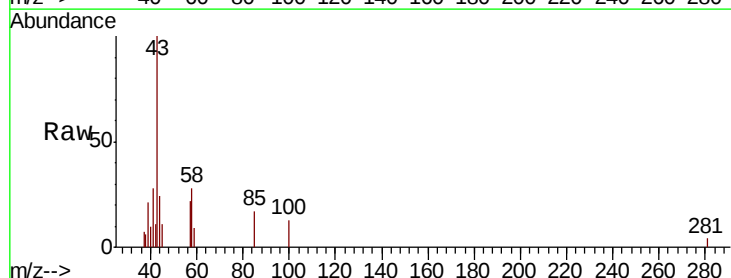
Acq: 30 Aug 2019 20:03

Tgt Ion: 43 Resp: 3666

Ion Ratio Lower Upper

43 100

58 53.7 27.9 41.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

4000

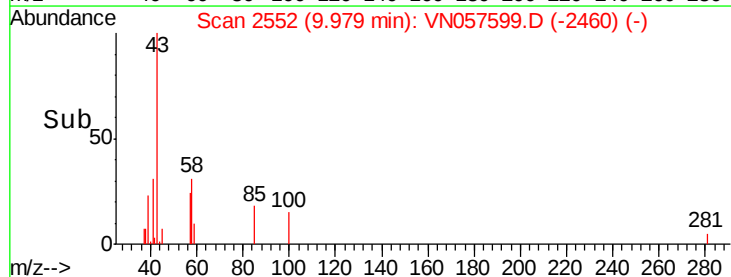
3000

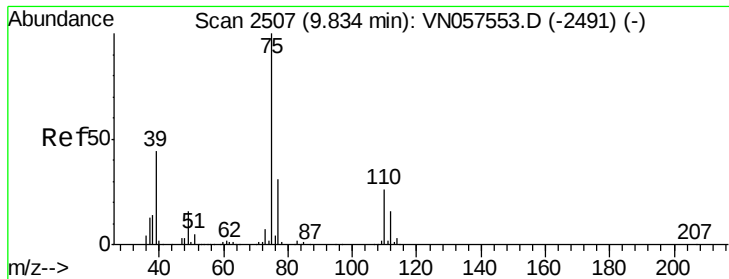
2000

1000

0

Time-->



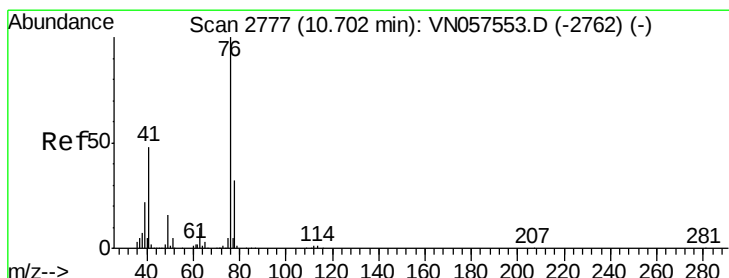
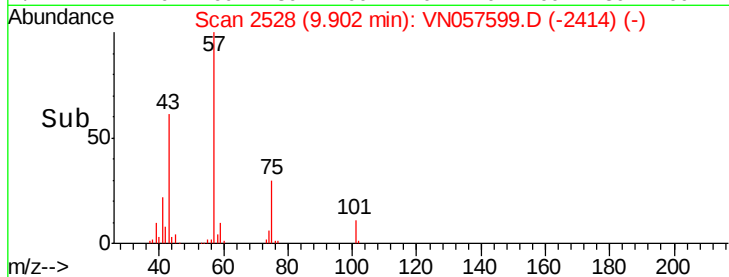
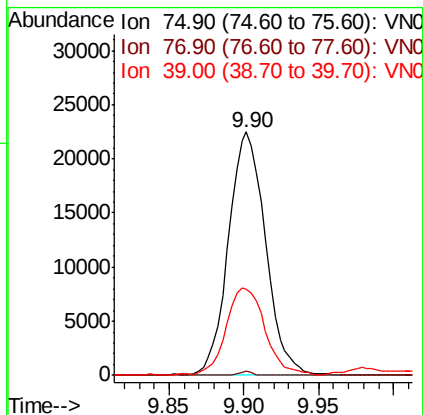
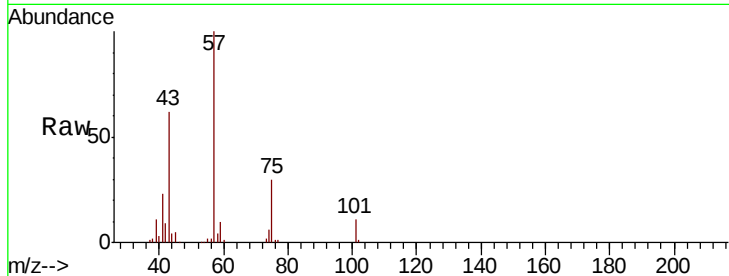


#54

cis-1,3-Dichloropropene
 Concen: 3.345 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057599.D
 Acq: 30 Aug 2019 20:03

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-S-A2-(2.5)

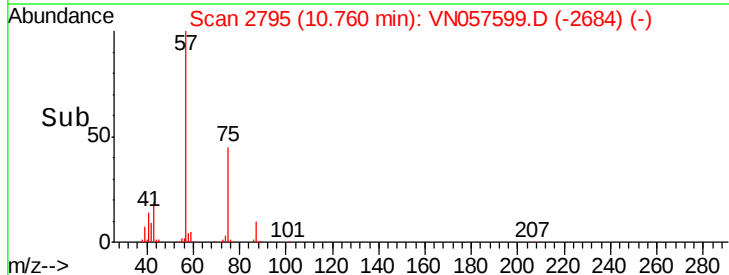
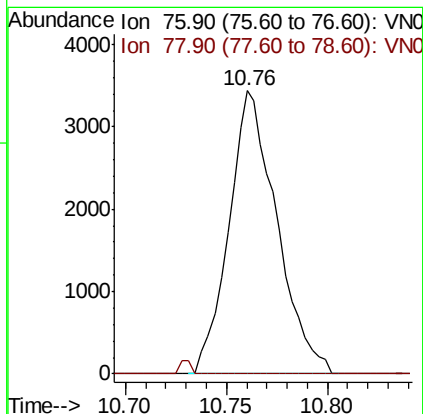
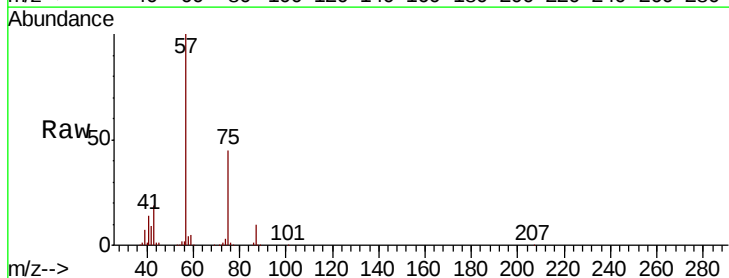
Tgt Ion: 75 Resp: 38807
 Ion Ratio Lower Upper
 75 100
 77 1.8 25.0 37.6#
 39 34.5 49.2 73.8#

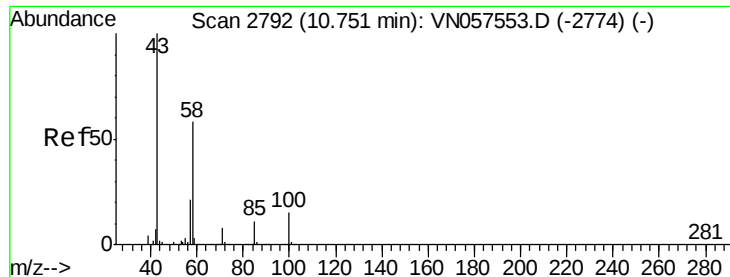


#57

1,3-Dichloropropane
 Concen: 0.487 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.06 min
 Lab File: VN057599.D
 Acq: 30 Aug 2019 20:03

Tgt Ion: 76 Resp: 5686
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#

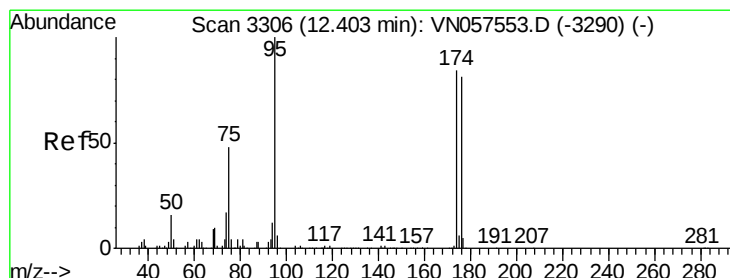
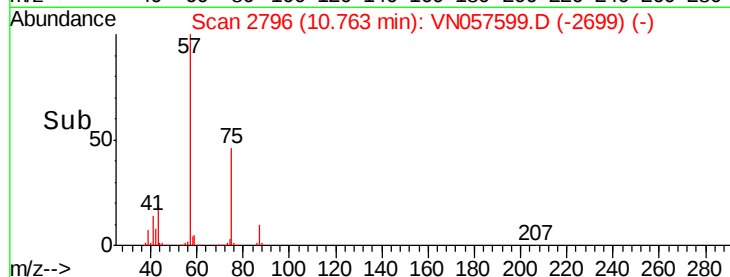
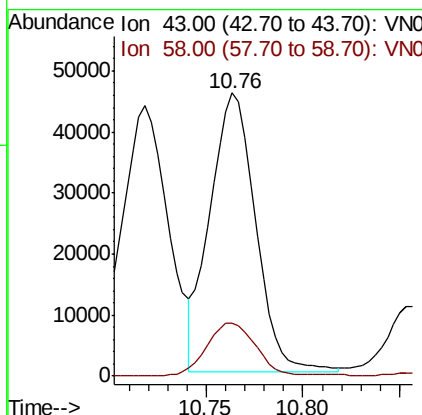
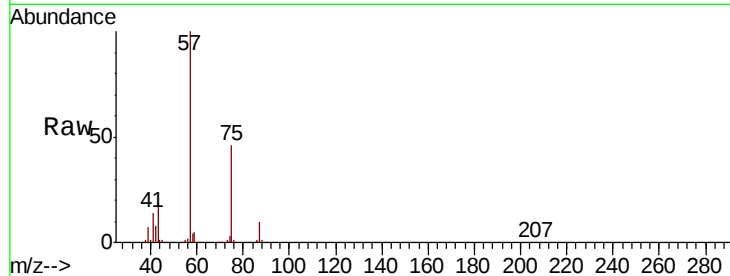




#59
2-Hexanone
Concen: 17.224 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057599.D
Acq: 30 Aug 2019 20:03

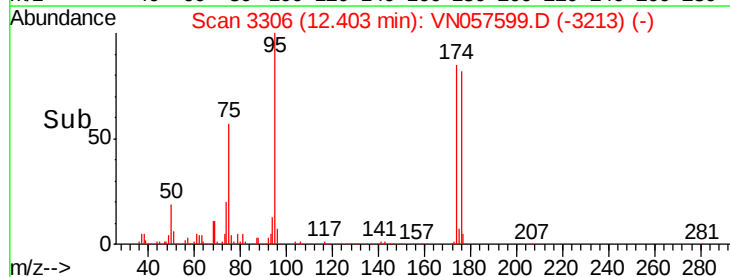
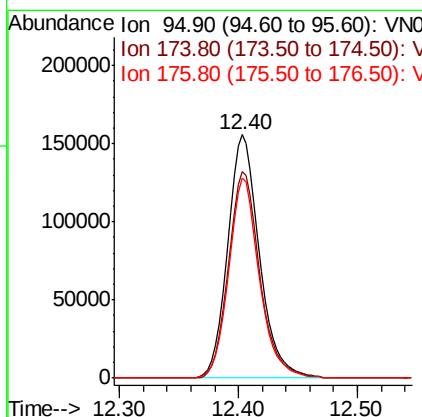
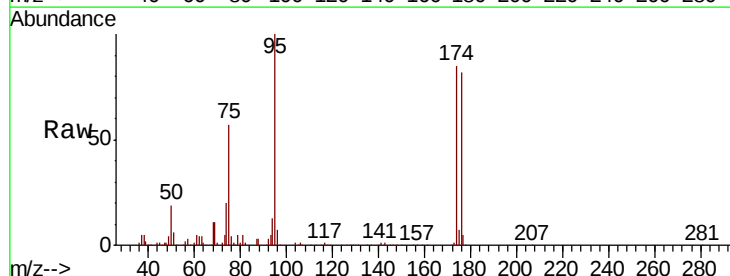
Instrument :
MSVOA_N
ClientSampled :
T2-S-A2-(2.5)

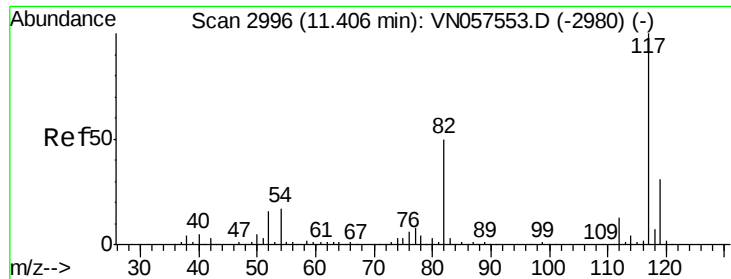
Tgt Ion: 43 Resp: 75305
Ion Ratio Lower Upper
43 100
58 20.5 24.6 73.6#



#62
4-Bromofluorobenzene
Concen: 30.549 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057599.D
Acq: 30 Aug 2019 20:03

Tgt Ion: 95 Resp: 287143
Ion Ratio Lower Upper
95 100
174 84.2 0.0 133.0
176 79.6 0.0 130.8

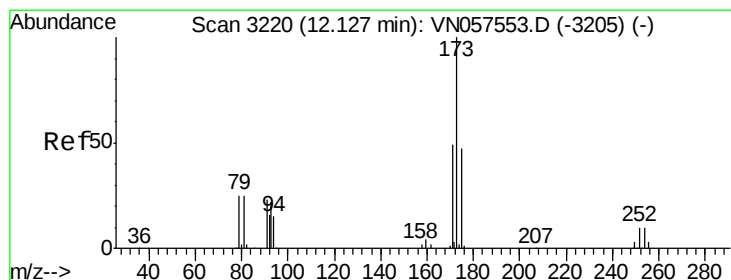
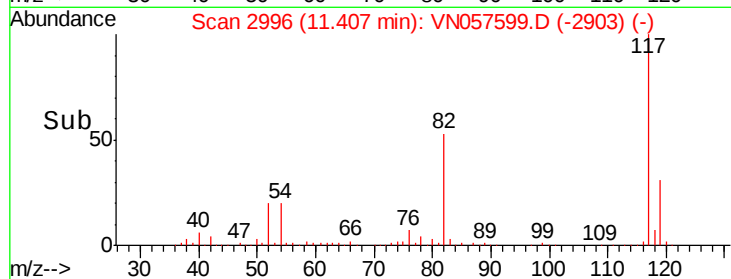
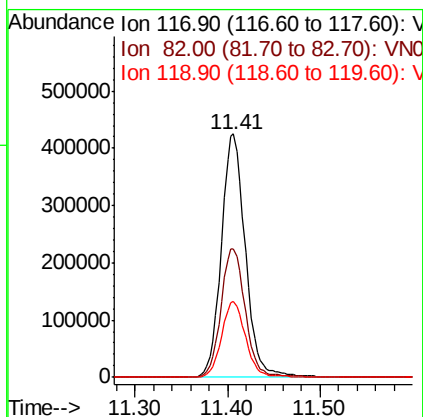
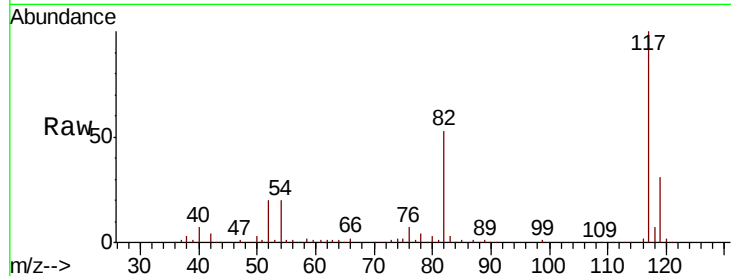




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057599.D
Acq: 30 Aug 2019 20:03

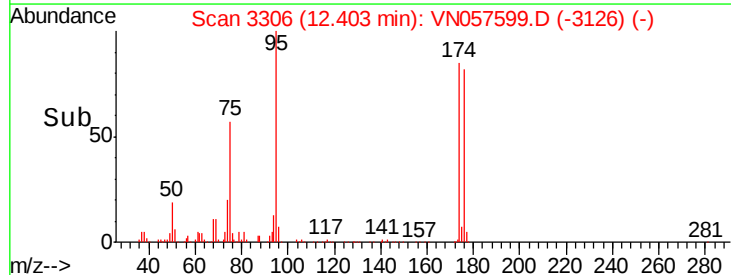
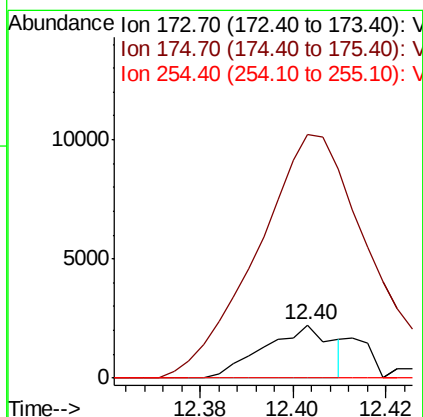
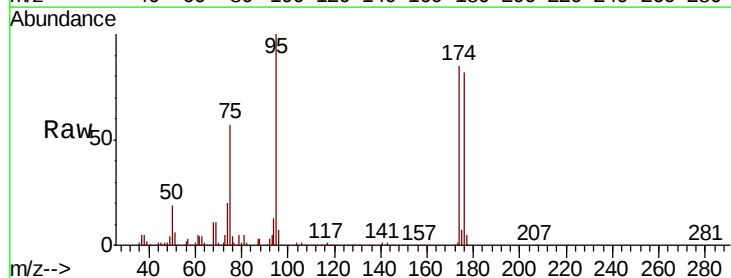
Instrument :
MSVOA_N
ClientSampled :
T2-S-A2-(2.5)

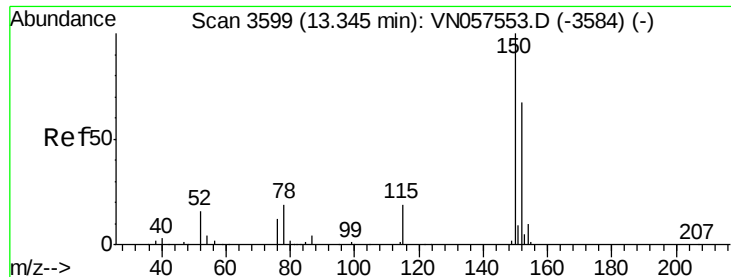
Tgt Ion:117 Resp: 764863
Ion Ratio Lower Upper
117 100
82 52.9 50.6 75.8
119 31.0 24.6 36.8



#71
Bromoform
Concen: 0.450 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN057599.D
Acq: 30 Aug 2019 20:03

Tgt Ion:173 Resp: 2275
Ion Ratio Lower Upper
173 100
175 606.2 23.9 71.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057599.D

Acq: 30 Aug 2019 20:03

Instrument :

MSVOA_N

ClientSampleId :

T2-S-A2-(2.5)

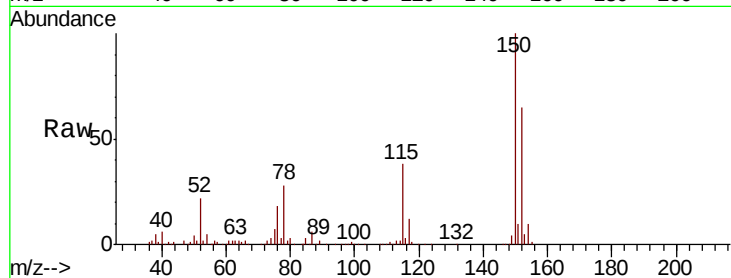
Tgt Ion:152 Resp: 203303

Ion Ratio Lower Upper

152 100

115 58.1 32.0 96.0

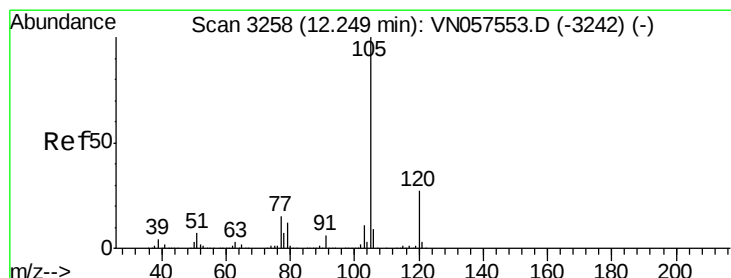
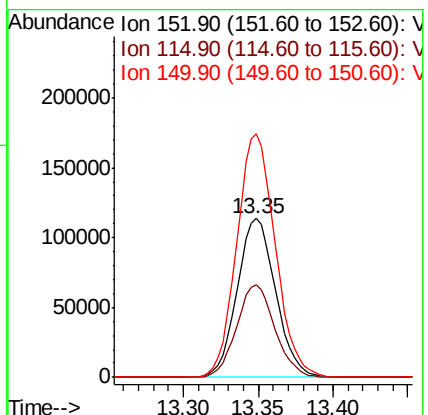
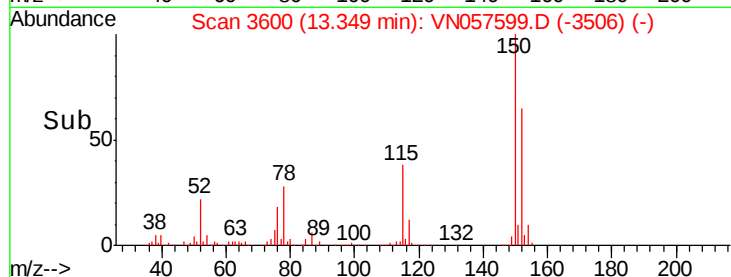
150 153.7 0.0 346.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN057599.D

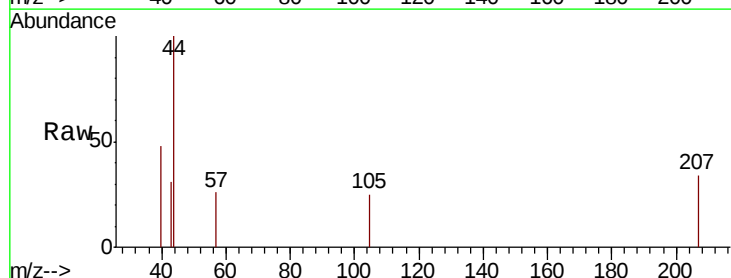
Acq: 30 Aug 2019 20:03

Tgt Ion:105 Resp: 130

Ion Ratio Lower Upper

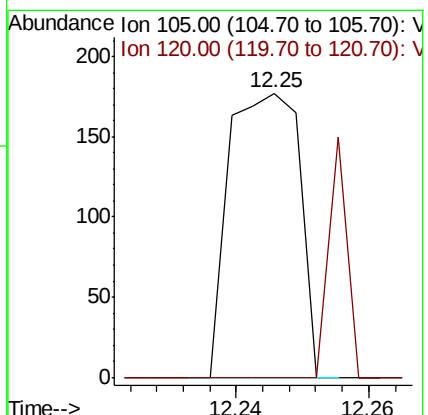
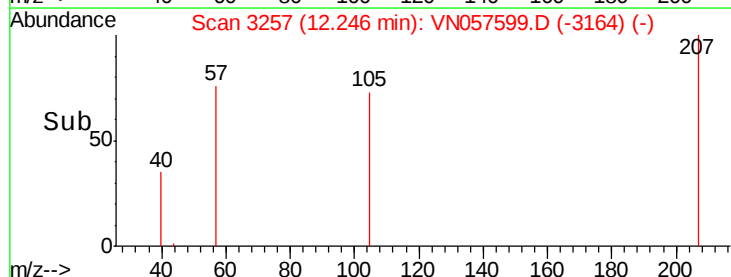
105 100

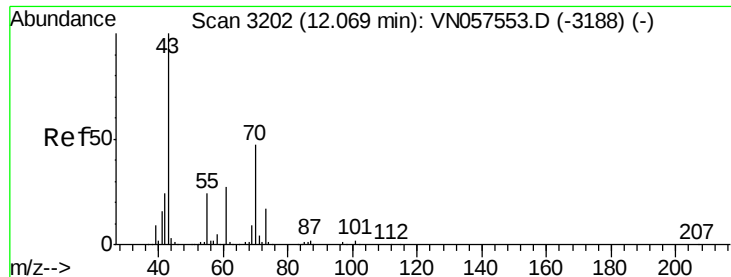
120 22.3 12.7 38.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-ethyl acetate

Concen: Below Cal

RT: 12.03 min Scan# 3191

Delta R.T. -0.03 min

Lab File: VN057599.D

Acq: 30 Aug 2019 20:03

Instrument :

MSVOA_N

ClientSampled :

T2-S-A2-(2.5)

Tgt Ion: 43 Resp: 1610

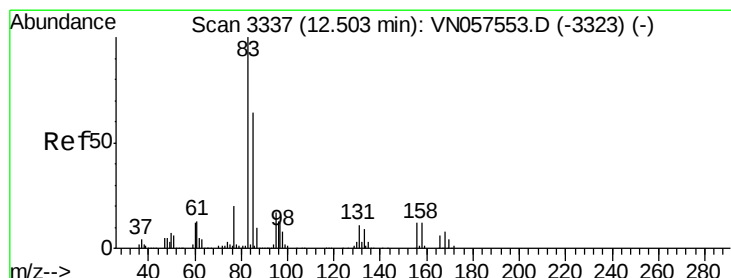
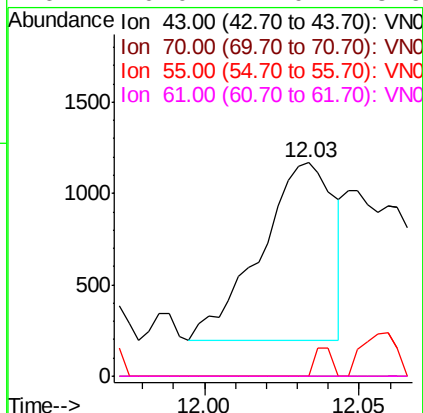
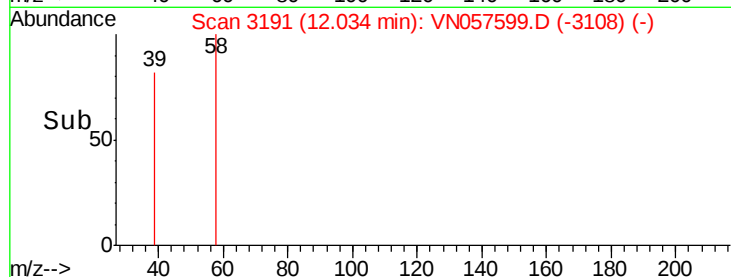
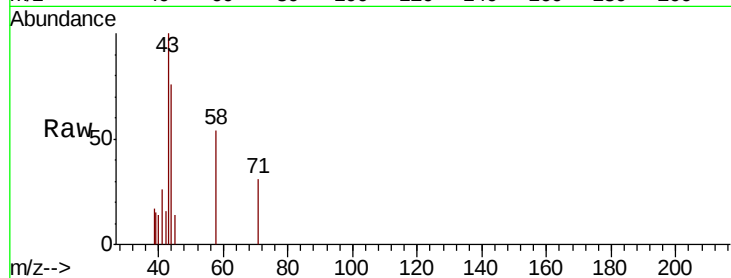
Ion Ratio Lower Upper

43 100

70 0.0 27.8 41.6#

55 3.7 17.0 25.4#

61 0.0 17.0 25.6#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN057599.D

Acq: 30 Aug 2019 20:03

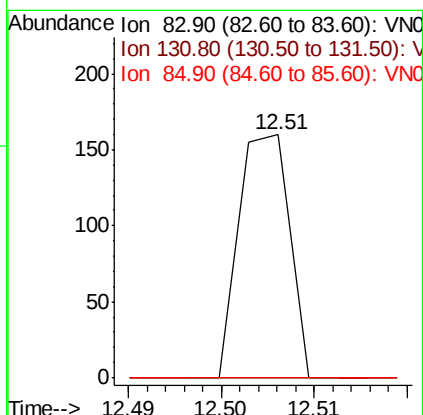
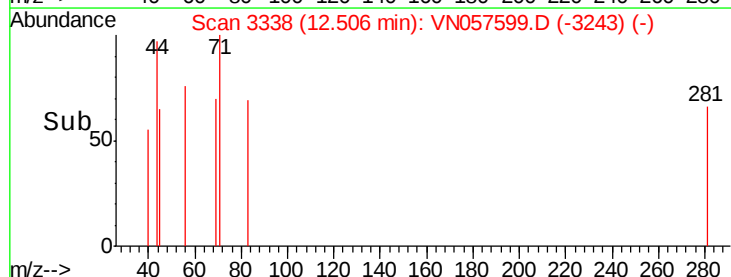
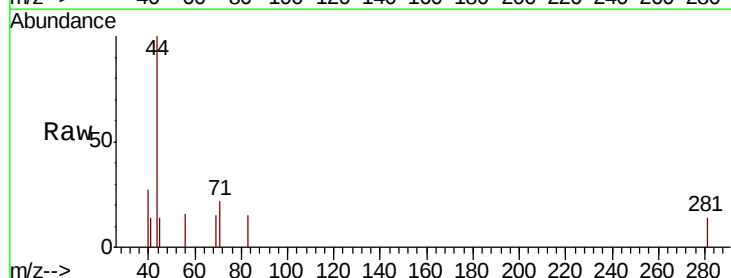
Tgt Ion: 83 Resp: 61

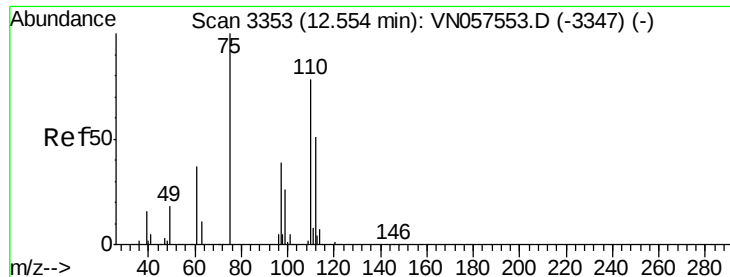
Ion Ratio Lower Upper

83 100

131 0.0 4.3 13.1#

85 0.0 32.3 96.8#





#76

1,2,3-Trichloropropane

Concen: 41.538 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057599.D

Acq: 30 Aug 2019 20:03

Instrument :

MSVOA_N

ClientSampleId :

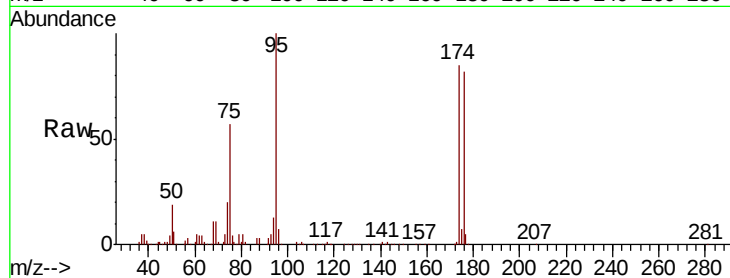
T2-S-A2-(2.5)

Tgt Ion: 75 Resp: 157419

Ion Ratio Lower Upper

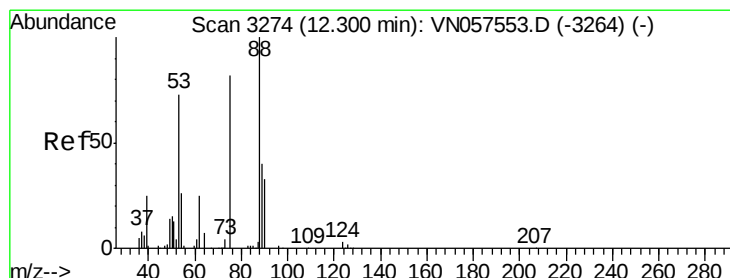
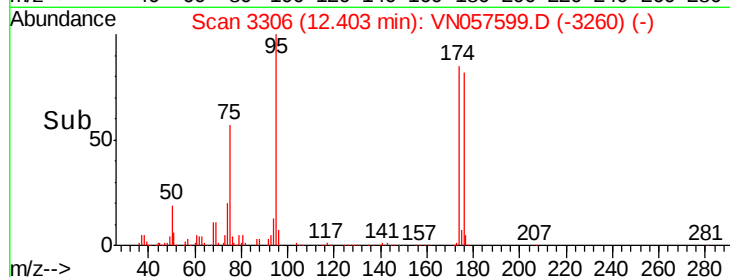
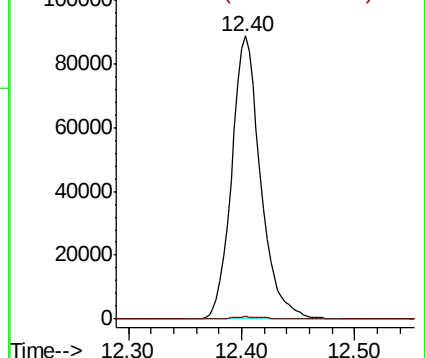
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 116.429 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057599.D

Acq: 30 Aug 2019 20:03

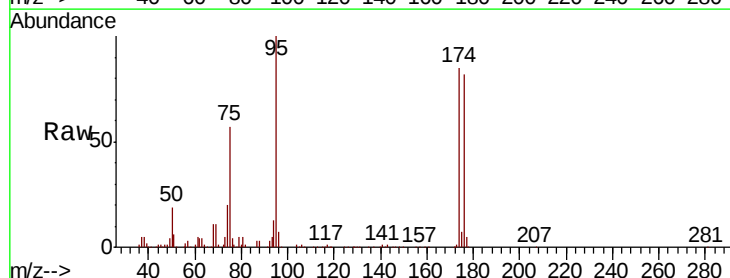
Tgt Ion: 75 Resp: 157419

Ion Ratio Lower Upper

75 100

53 0.0 82.7 124.1#

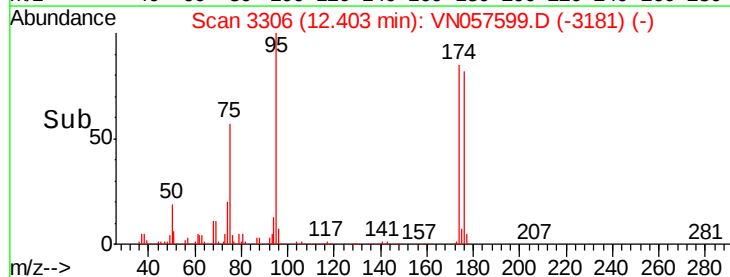
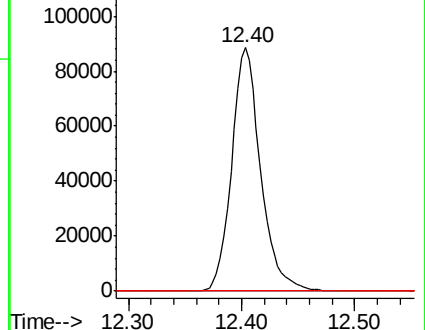
89 0.0 35.8 53.8#

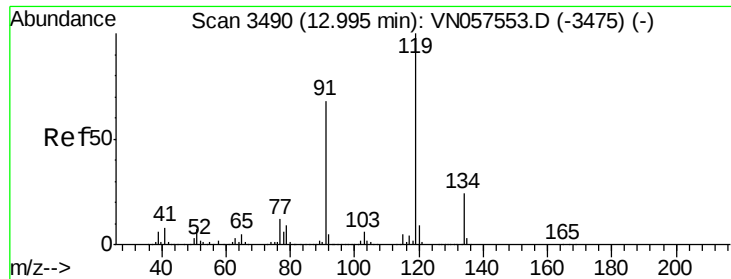


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

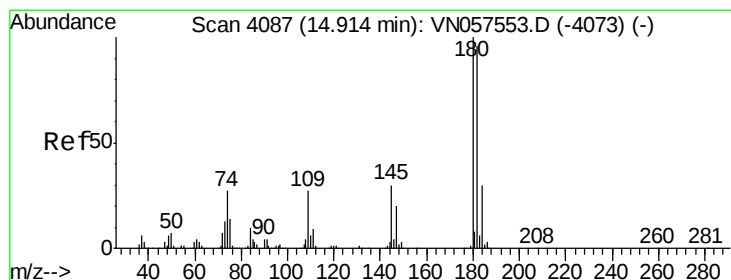
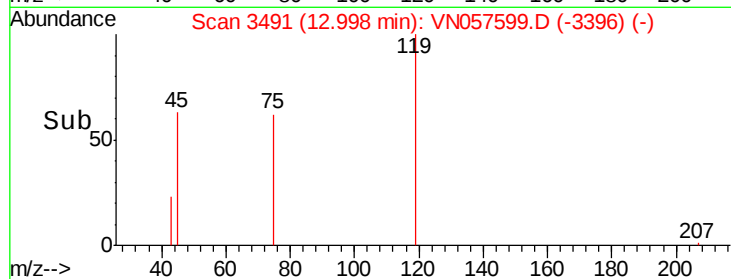
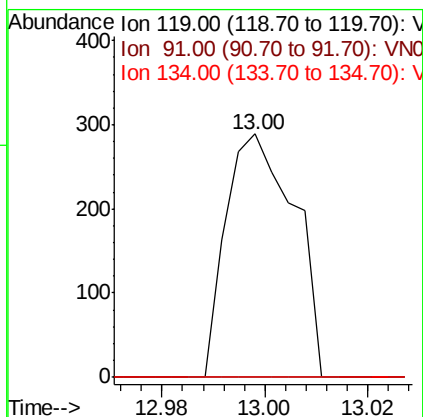
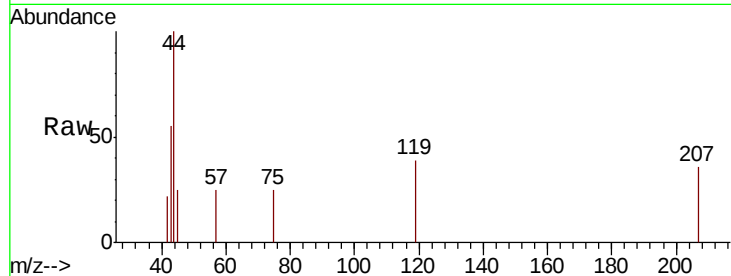




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.00 min Scan# 3491
 Delta R.T. 0.00 min
 Lab File: VN057599.D
 Acq: 30 Aug 2019 20:03

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-S-A2-(2.5)

Tgt Ion	Ratio	Lower	Upper
119	100		
91	0.0	37.0	111.0#
134	0.0	12.2	36.6#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.927 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN057599.D
 Acq: 30 Aug 2019 20:03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	53.1	46.7	140.1
145	7.3	15.6	46.8#

