

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083119\
 Data File : VN057603.D
 Acq On : 30 Aug 2019 21:44
 Operator : JC/SP
 Sample : K4517-27
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D2-(2.5)

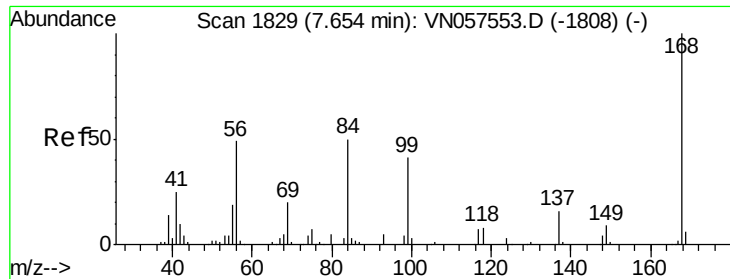
Quant Time: Aug 31 00:51:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 11:59:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	607640	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	936638	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	818966	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	230753	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	365226	36.72	ug/l	0.00
Spiked Amount			Recovery	=	73.44%	
35) Dibromofluoromethane	7.58	113	284228	33.95	ug/l	0.00
Spiked Amount			Recovery	=	67.90%	
50) Toluene-d8	10.08	98	1133814	38.29	ug/l	0.00
Spiked Amount			Recovery	=	76.58%	
62) 4-Bromofluorobenzene	12.40	95	320826	32.28	ug/l	0.00
Spiked Amount			Recovery	=	64.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.58	56	620	0.738	ug/l #	40
16) Acetone	3.81	43	19803	4.926	ug/l #	87
18) Methyl Acetate	4.32	43	11775	Below Cal	#	79
20) Methylene Chloride	4.53	84	31897	4.283	ug/l #	80
31) Cyclohexane	7.66	56	12121	1.049	ug/l #	29
36) 1,1-Dichloropropene	7.65	75	44908	4.432	ug/l #	51
38) Carbon Tetrachloride	7.65	117	56797	4.794	ug/l #	17
41) Methacrylonitrile	7.17	41	29	1.276	ug/l #	17
43) Isopropyl Acetate	8.16	43	85993	6.863	ug/l #	95
45) 1,2-Dichloropropane	9.26	63	1643	0.227	ug/l #	44
48) Methyl methacrylate	9.17	41	4676	0.790	ug/l #	15
49) 1,4-Dioxane	9.18	88	32	0.296	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	5574	0.832	ug/l	90
54) cis-1,3-Dichloropropene	9.90	75	42593	3.471	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	6492	0.526	ug/l #	43
59) 2-Hexanone	10.76	43	86161	18.635	ug/l #	58
73) Isopropylbenzene	12.40	105	502	Below Cal	#	50
74) N-amyl acetate	12.03	43	2147	Below Cal	#	50
75) 1,1,2,2-Tetrachloroethane	12.40	83	311	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	174568	40.502	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	174568	113.754	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.92	180	328	3.878	ug/l #	42

(#) = 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: VN057603.D

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Instrument :

MSVOA_N

ClientSampled :

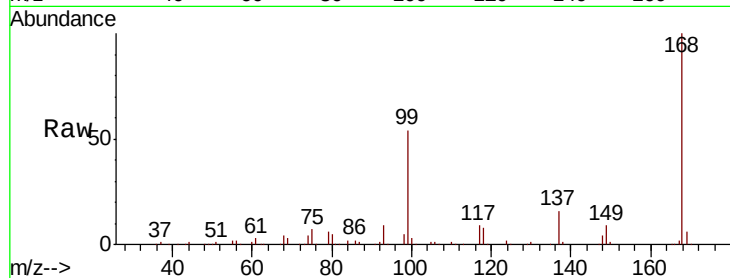
T4-S-D2-(2.5)

Tgt Ion:168 Resp: 607640

Ion Ratio Lower Upper

168 100

99 54.4 50.6 76.0



Abundance Ion 167.90 (167.60 to 168.60): VN057553.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN057553.D (-1808) (-)

7.65

250000

200000

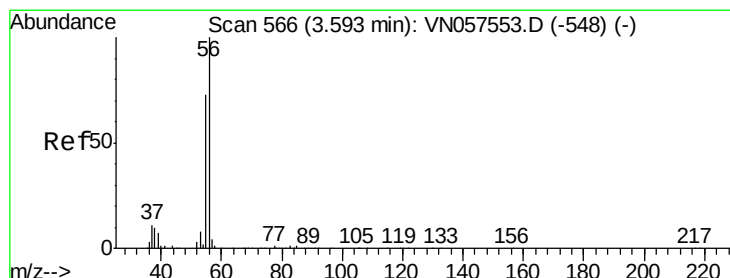
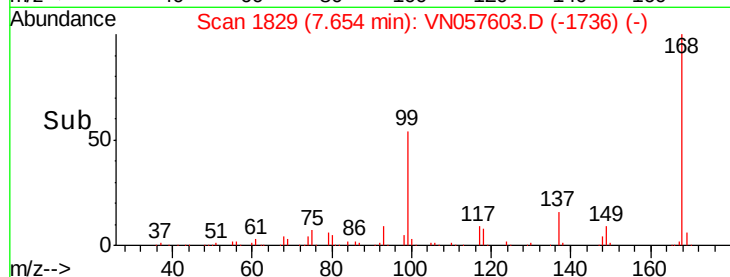
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.738 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.01 min

Lab File: VN057603.D

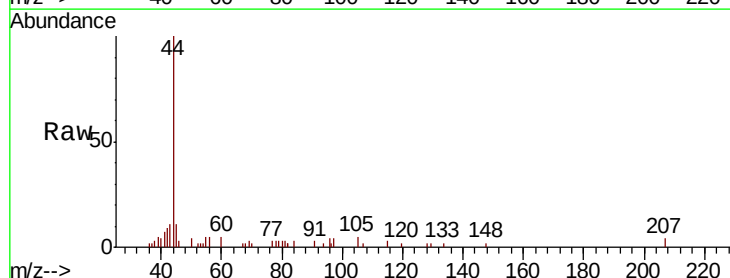
Acq: 30 Aug 2019 21:44

Tgt Ion: 56 Resp: 620

Ion Ratio Lower Upper

56 100

55 22.9 59.0 88.4#



Abundance Ion 56.00 (55.70 to 56.70): VN057553.D (-548) (-)

Ion 55.00 (54.70 to 55.70): VN057553.D (-548) (-)

3.58

800

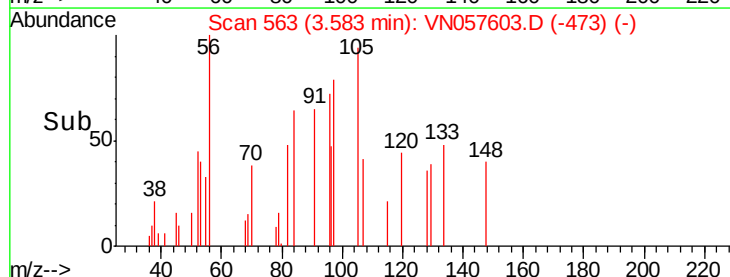
600

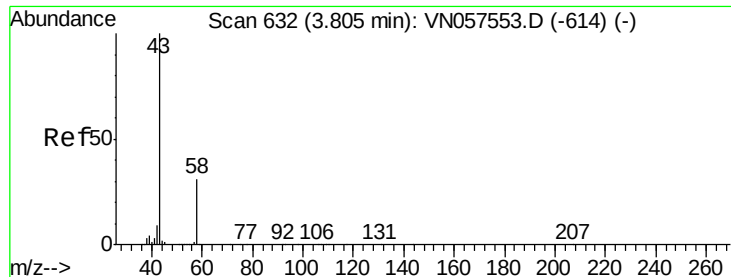
400

200

0

Time-->





#16

Acetone

Concen: 4.926 ug/l

RT: 3.81 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN057603.D

Acq: 30 Aug 2019 21:44

Instrument :

MSVOA_N

ClientSampleId :

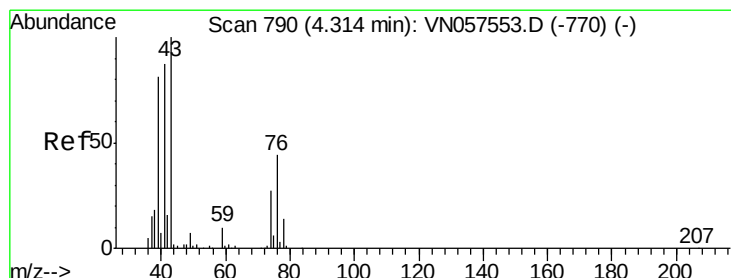
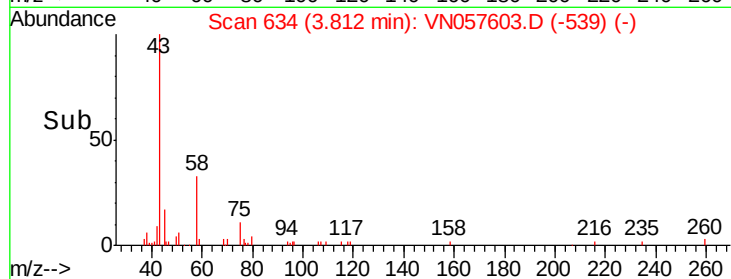
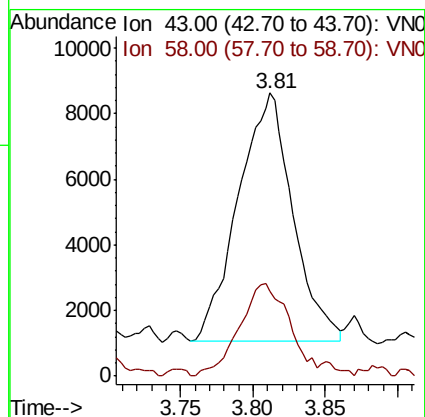
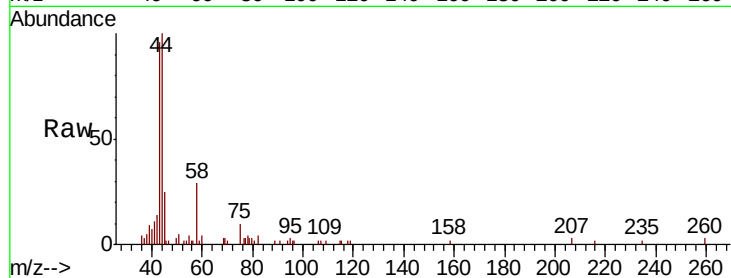
T4-S-D2-(2.5)

Tgt Ion: 43 Resp: 19803

Ion Ratio Lower Upper

43 100

58 34.5 22.1 33.1#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN057603.D

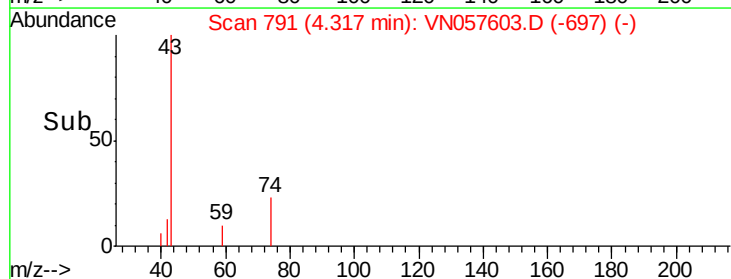
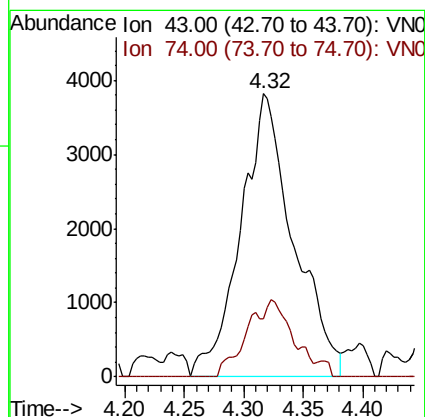
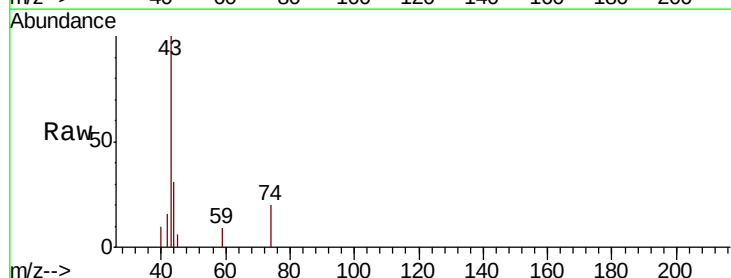
Acq: 30 Aug 2019 21:44

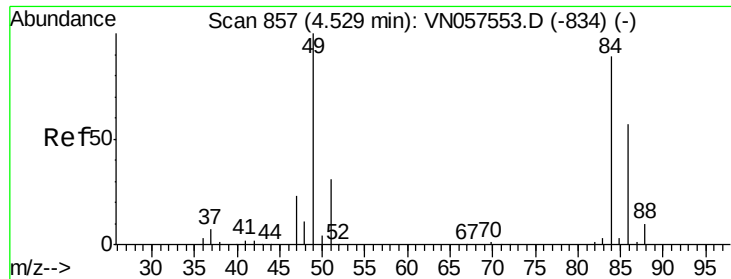
Tgt Ion: 43 Resp: 11775

Ion Ratio Lower Upper

43 100

74 10.2 15.9 23.9#

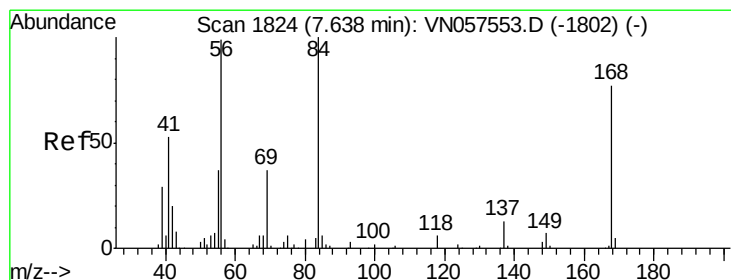
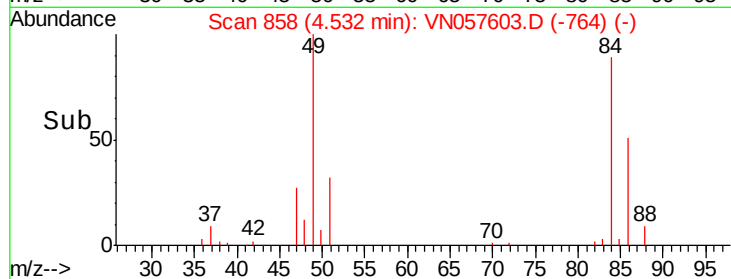
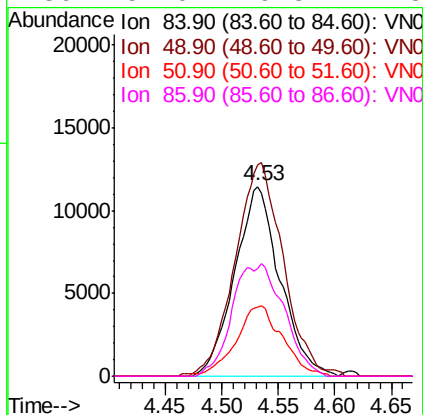
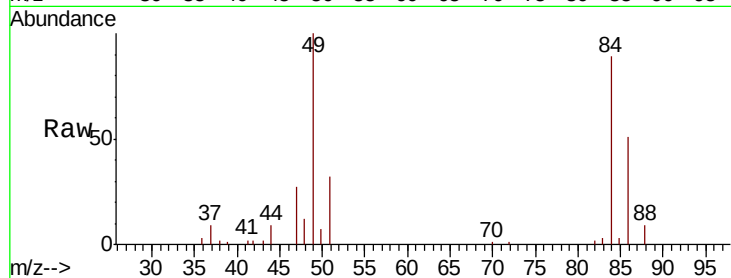




#20
Methylene Chloride
Concen: 4.283 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN057603.D
Acq: 30 Aug 2019 21:44

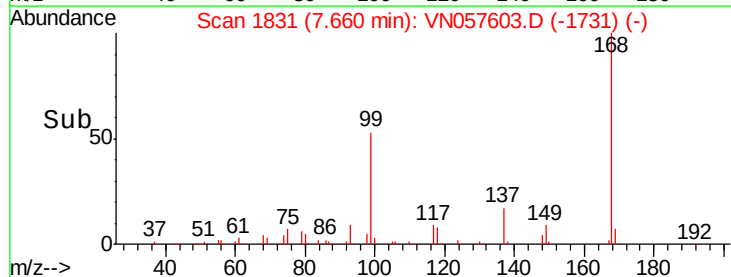
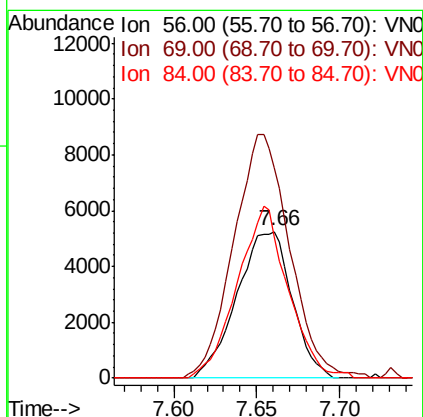
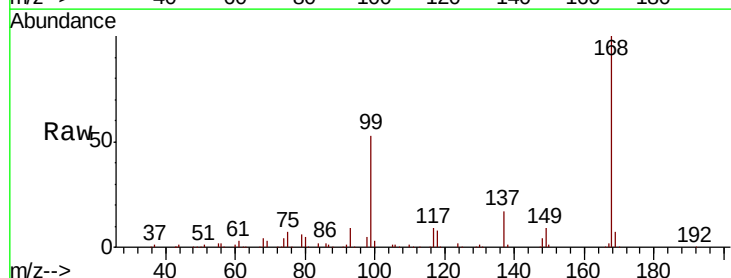
Instrument :
MSVOA_N
ClientSampleId :
T4-S-D2-(2.5)

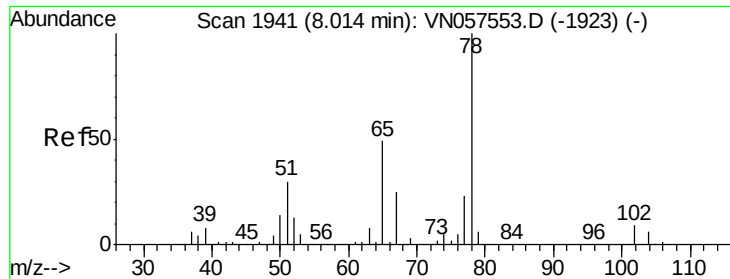
Tgt Ion:	84	Resp:	31897
Ion	Ratio	Lower	Upper
84	100		
49	110.3	117.0	175.4#
51	36.2	35.5	53.3
86	57.0	49.8	74.8



#31
Cyclohexane
Concen: 1.049 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.02 min
Lab File: VN057603.D
Acq: 30 Aug 2019 21:44

Tgt Ion:	56	Resp:	12121
Ion	Ratio	Lower	Upper
56	100		
69	140.2	25.0	37.6#
84	96.4	62.5	93.7#

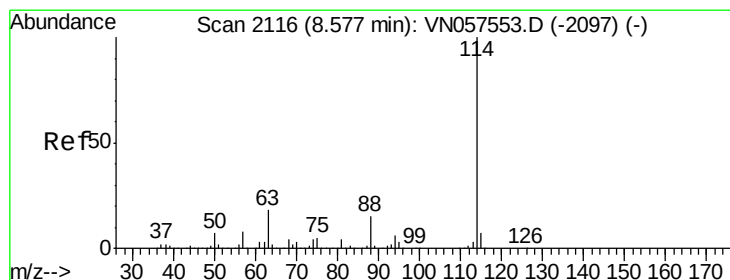
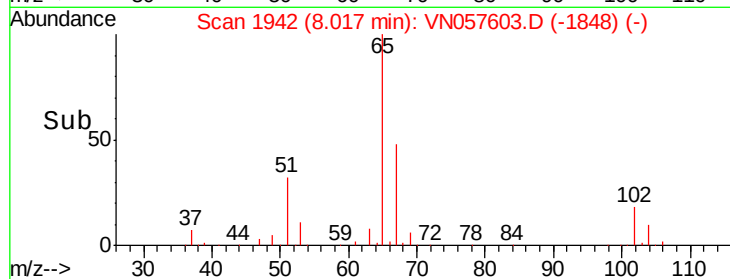
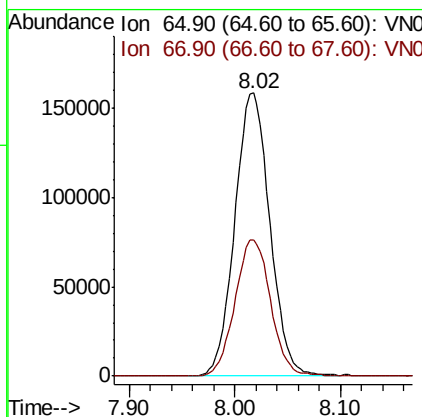
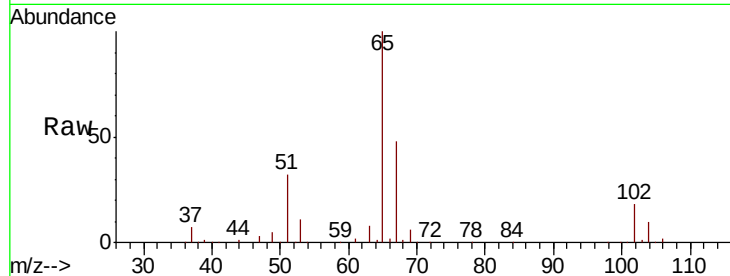




#33
 1,2-Dichloroethane-d4
 Concen: 36.723 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.00 min
 Lab File: VN057603.D
 Acq: 30 Aug 2019 21:44

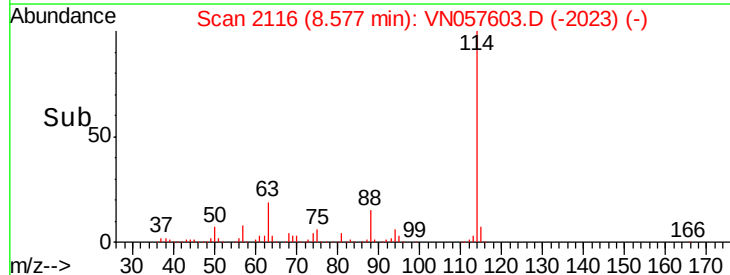
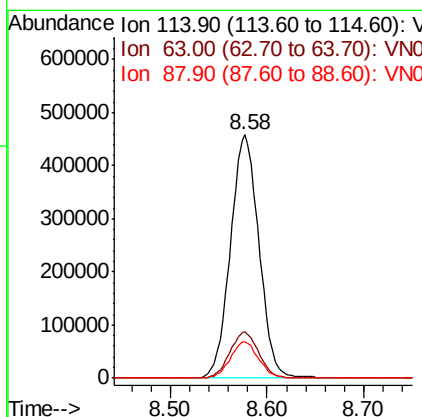
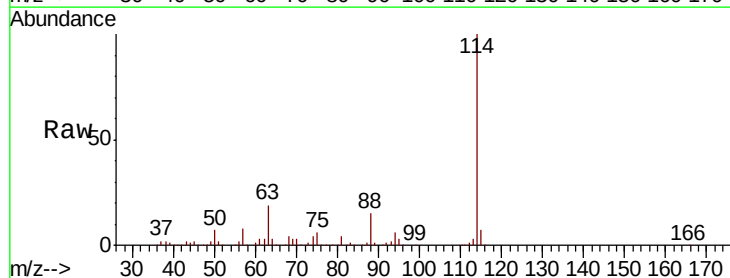
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D2-(2.5)

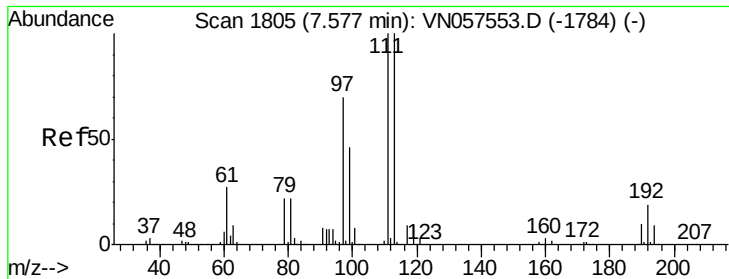
Tgt Ion: 65 Resp: 365226
 Ion Ratio Lower Upper
 65 100
 67 49.0 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. -0.00 min
 Lab File: VN057603.D
 Acq: 30 Aug 2019 21:44

Tgt Ion: 114 Resp: 936638
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 50.2
 88 15.1 0.0 34.6

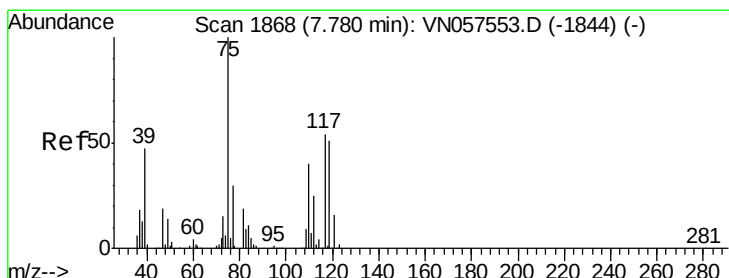
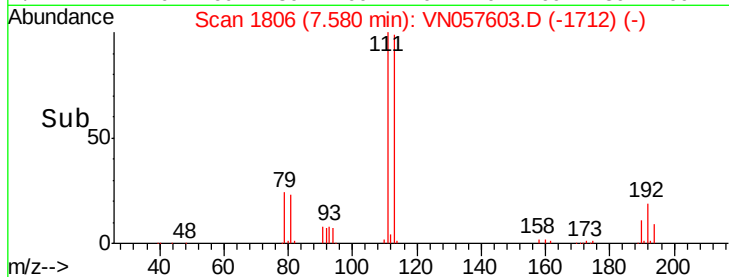
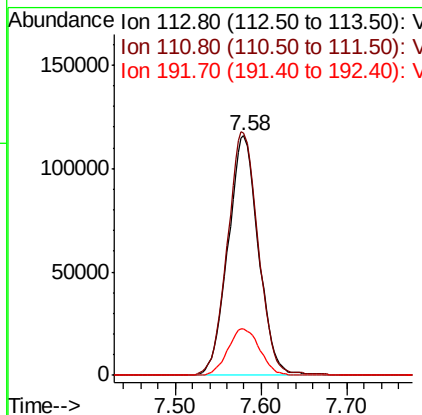
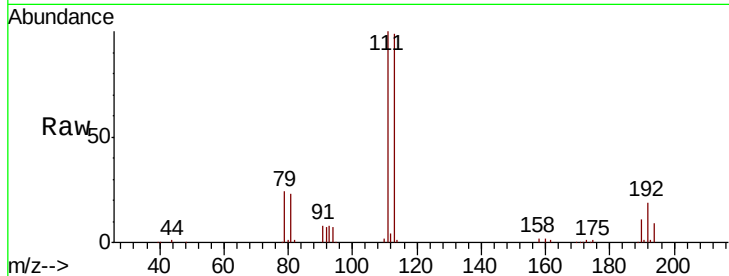




#35
 Dibromofluoromethane
 Concen: 33.951 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: VN057603.D
 Acq: 30 Aug 2019 21:44

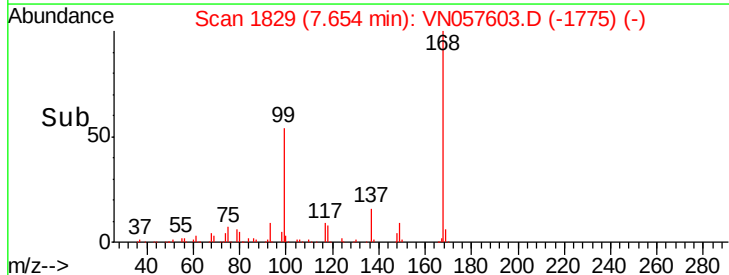
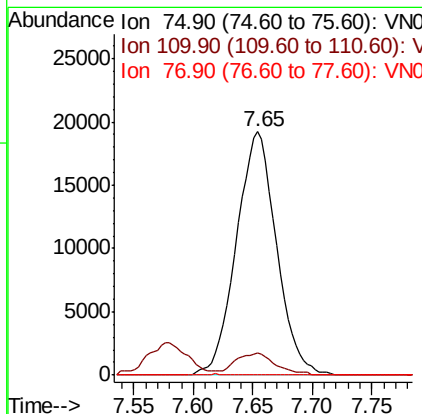
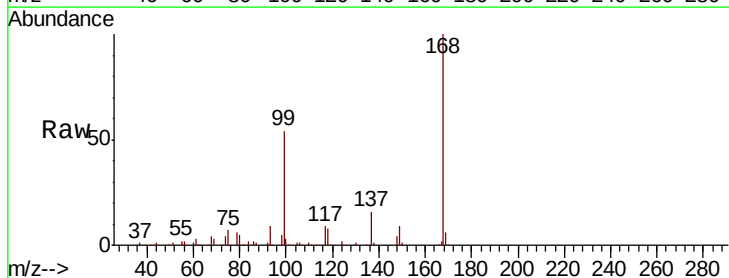
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D2-(2.5)

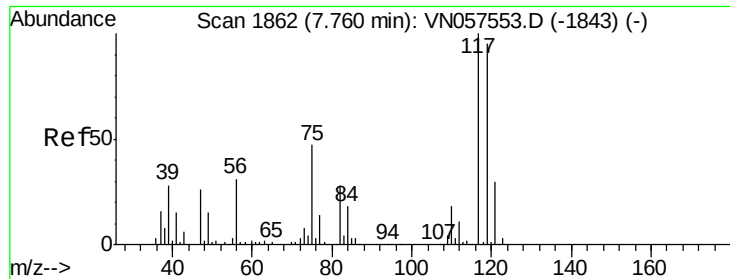
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	83.8	125.6
192	20.4	13.5	20.3#



#36
 1,1-Dichloropropene
 Concen: 4.432 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN057603.D
 Acq: 30 Aug 2019 21:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	16.1	48.3#
77	0.0	24.8	37.2#

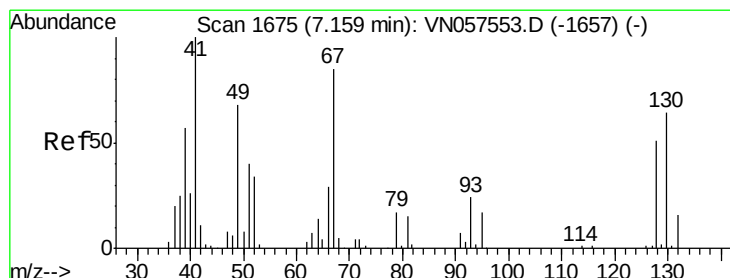
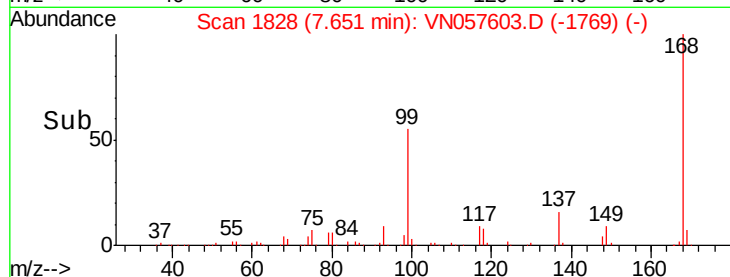
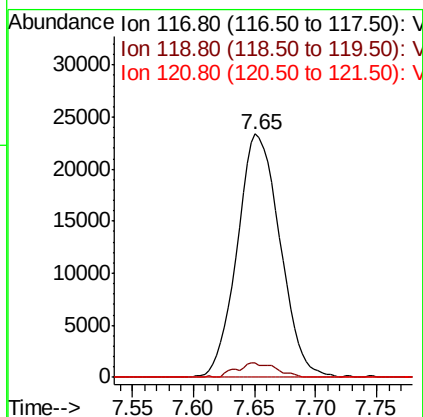
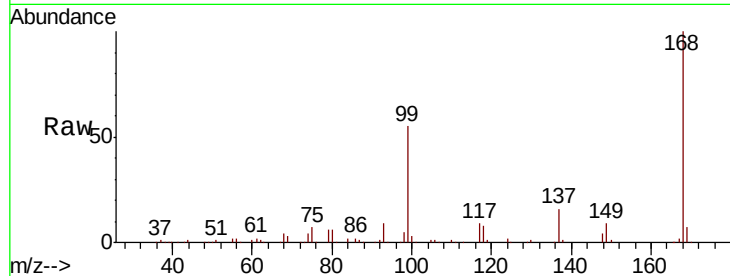




#38
 Carbon Tetrachloride
 Concen: 4.794 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057603.D
 Acq: 30 Aug 2019 21:44

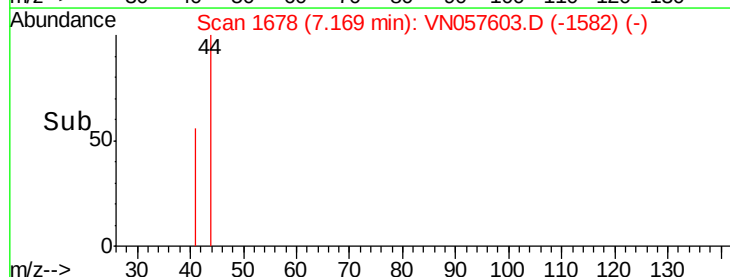
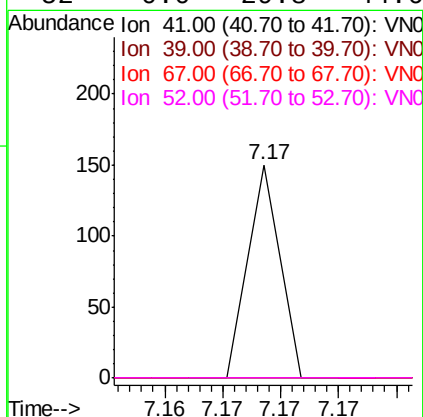
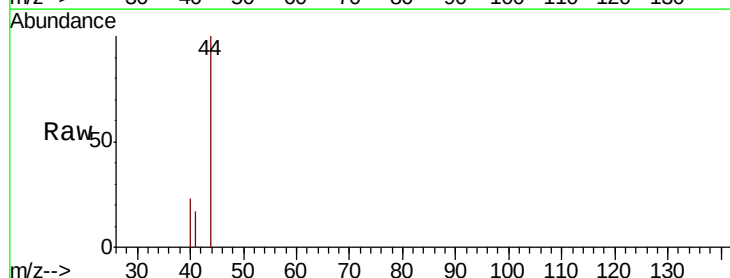
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D2-(2.5)

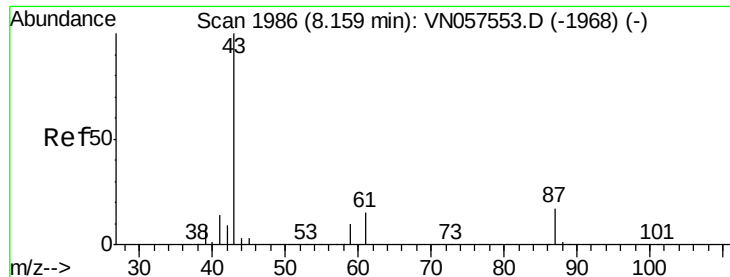
Tgt Ion: 117 Resp: 56797
 Ion Ratio Lower Upper
 117 100
 119 5.8 76.2 114.4#
 121 0.0 23.8 35.6#



#41
 Methacrylonitrile
 Concen: 1.276 ug/l
 RT: 7.17 min Scan# 1678
 Delta R.T. 0.01 min
 Lab File: VN057603.D
 Acq: 30 Aug 2019 21:44

Tgt Ion: 41 Resp: 29
 Ion Ratio Lower Upper
 41 100
 39 0.0 53.6 80.4#
 67 0.0 65.4 98.2#
 52 0.0 29.8 44.6#

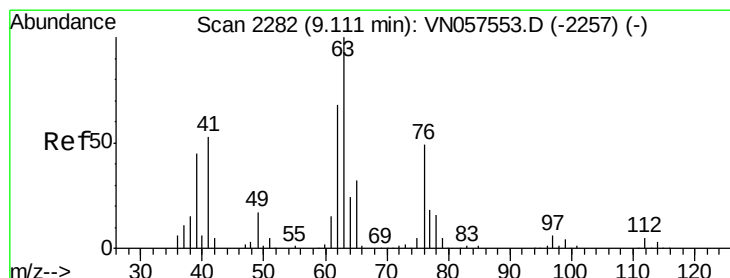
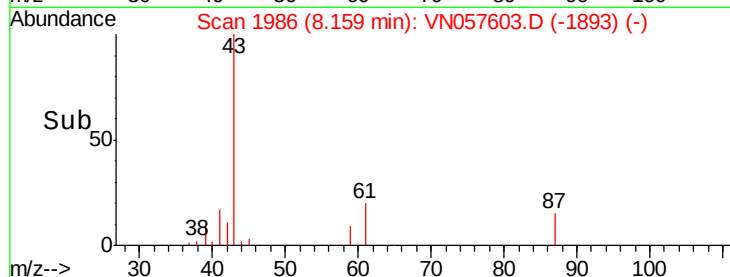
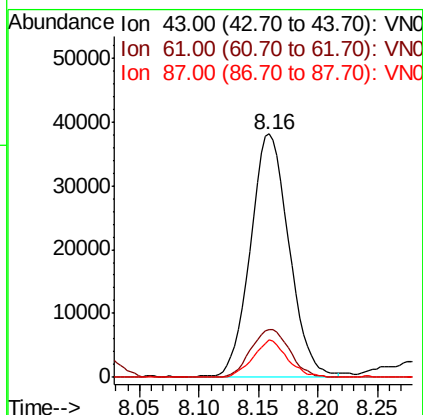
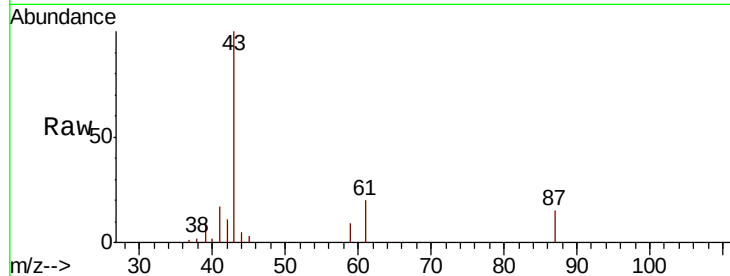




#43
Isopropyl Acetate
Concen: 6.863 ug/l
RT: 8.16 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN057603.D
Acq: 30 Aug 2019 21:44

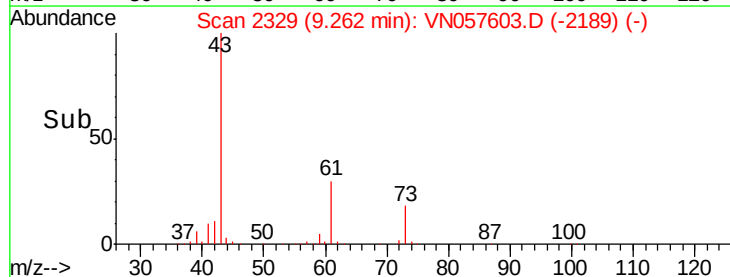
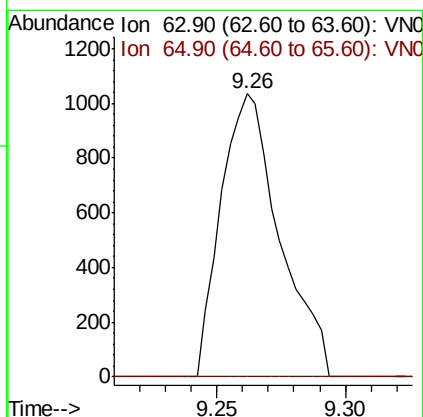
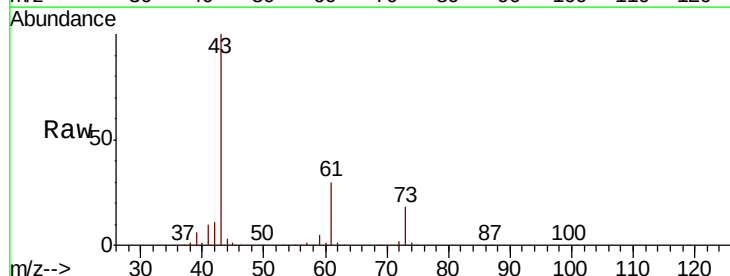
Instrument :
MSVOA_N
ClientSampleId :
T4-S-D2-(2.5)

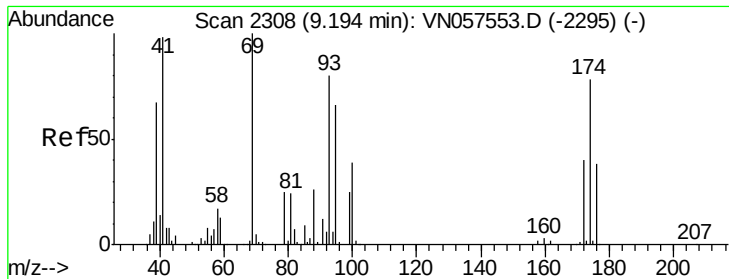
Tgt Ion: 43 Resp: 85993
Ion Ratio Lower Upper
43 100
61 19.5 14.5 21.7
87 13.5 8.6 12.8#



#45
1,2-Dichloropropane
Concen: 0.227 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.15 min
Lab File: VN057603.D
Acq: 30 Aug 2019 21:44

Tgt Ion: 63 Resp: 1643
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

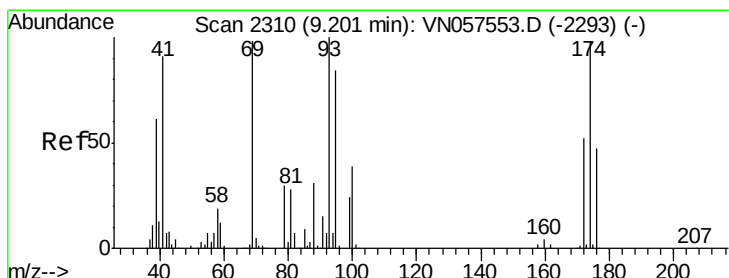
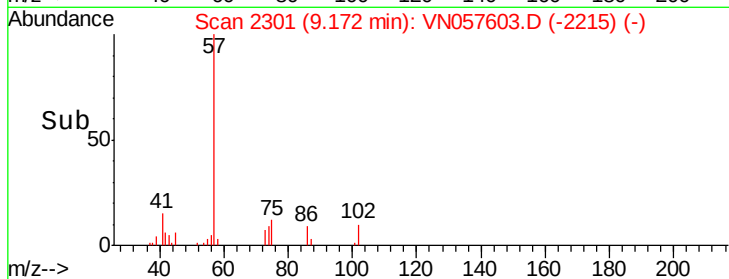
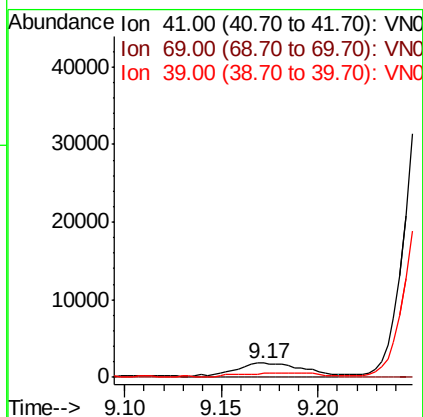
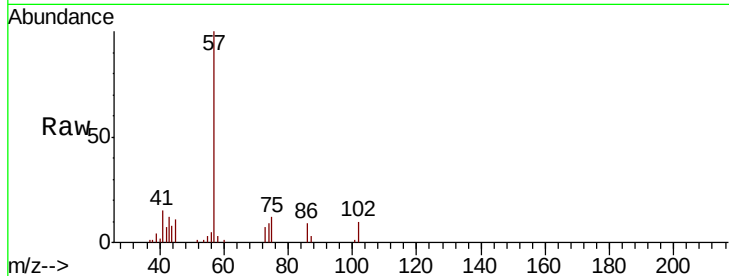




#48
Methyl methacrylate
Concen: 0.790 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN057603.D
Acq: 30 Aug 2019 21:44

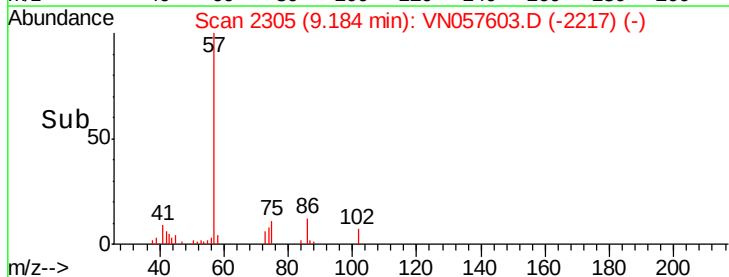
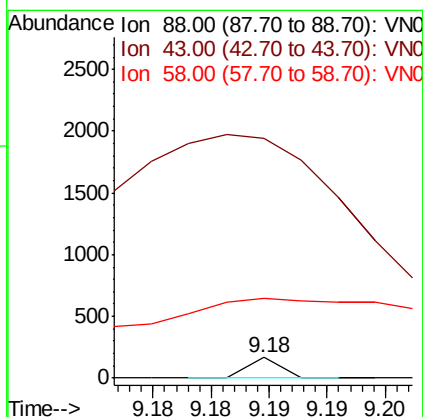
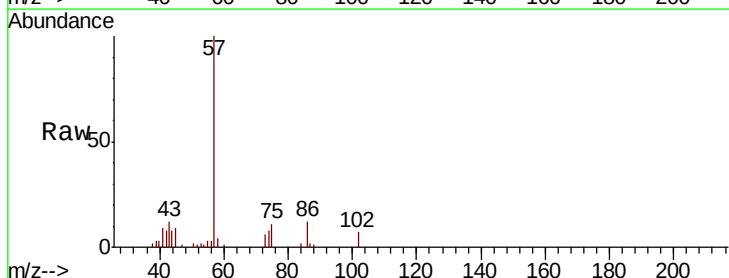
Instrument :
MSVOA_N
ClientSampleId :
T4-S-D2-(2.5)

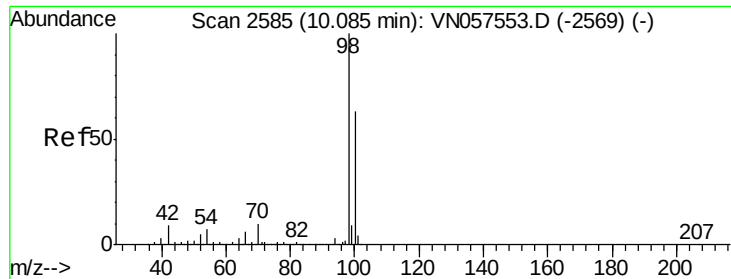
Tgt Ion: 41 Resp: 4676
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 50.6 75.8#



#49
1,4-Dioxane
Concen: 0.296 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN057603.D
Acq: 30 Aug 2019 21:44

Tgt Ion: 88 Resp: 32
Ion Ratio Lower Upper
88 100
43 0.0 31.0 46.6#
58 4159.4 64.5 96.7#

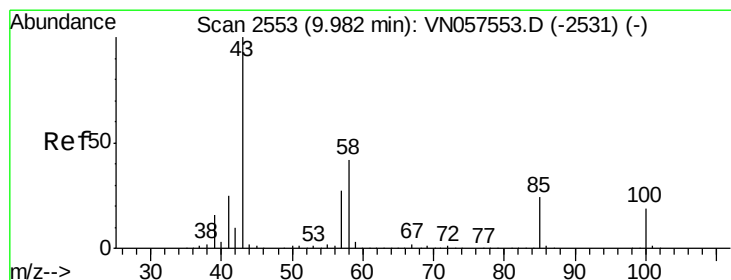
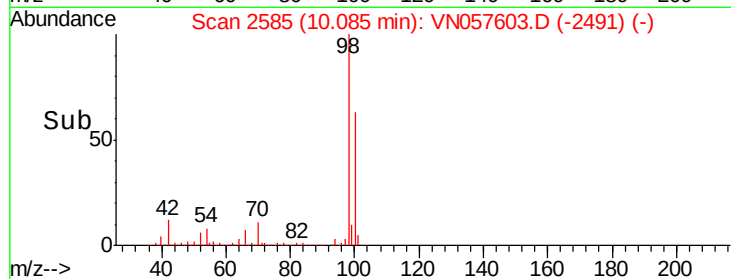
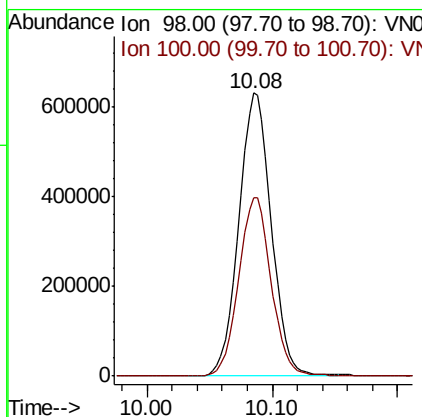
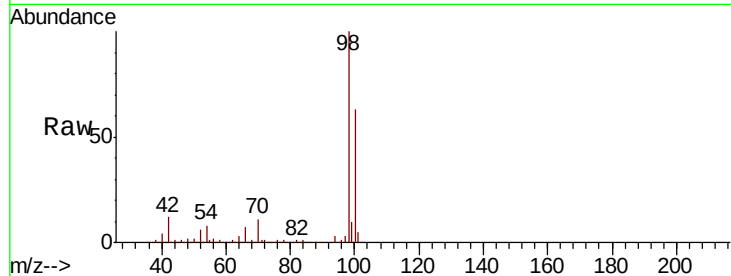




#50
Toluene-d8
Concen: 38.289 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057603.D
Acq: 30 Aug 2019 21:44

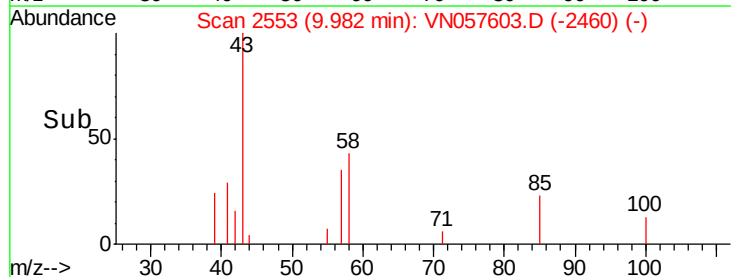
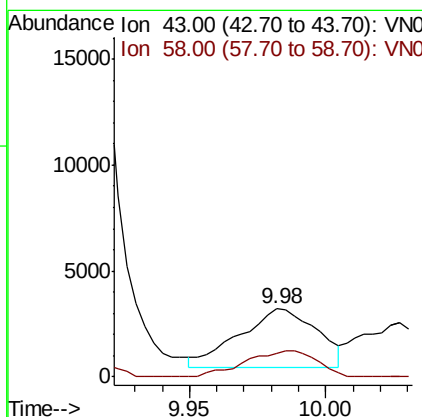
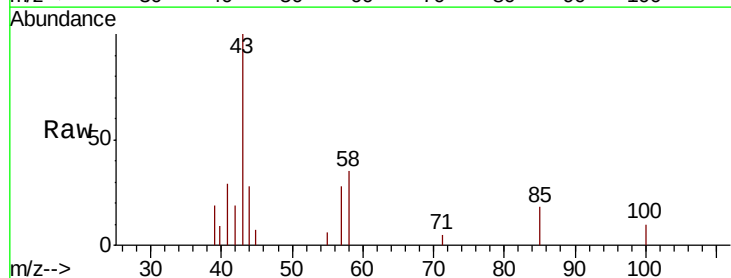
Instrument :
MSVOA_N
ClientSampled :
T4-S-D2-(2.5)

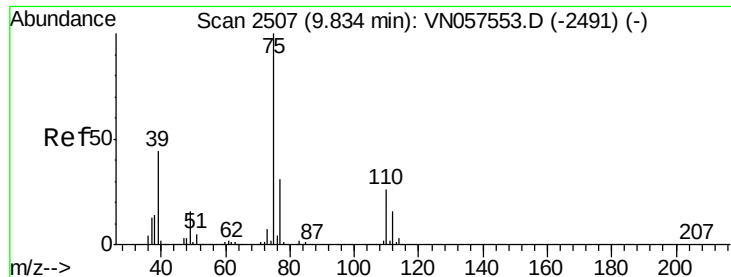
Tgt Ion: 98 Resp: 1133814
Ion Ratio Lower Upper
98 100
100 63.4 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.832 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN057603.D
Acq: 30 Aug 2019 21:44

Tgt Ion: 43 Resp: 5574
Ion Ratio Lower Upper
43 100
58 40.4 27.9 41.9





#54

cis-1,3-Dichloropropene

Concen: 3.471 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN057603.D

Acq: 30 Aug 2019 21:44

Instrument :

MSVOA_N

ClientSampleId :

T4-S-D2-(2.5)

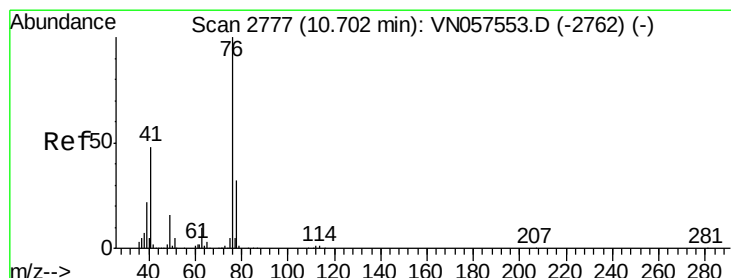
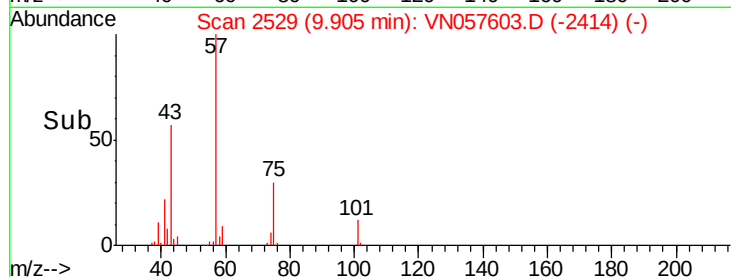
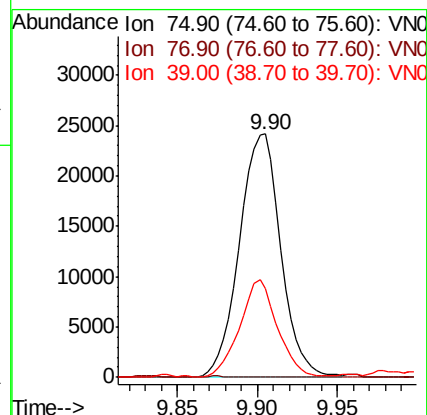
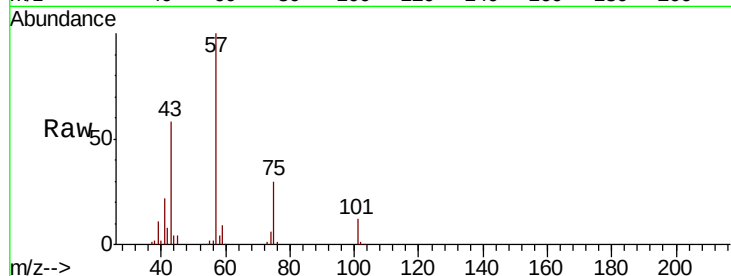
Tgt Ion: 75 Resp: 42593

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 36.4 49.2 73.8#



#57

1,3-Dichloropropane

Concen: 0.526 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN057603.D

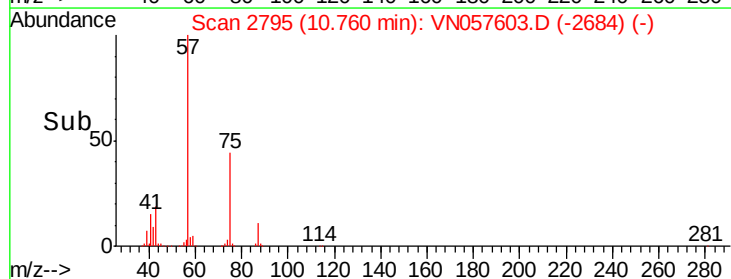
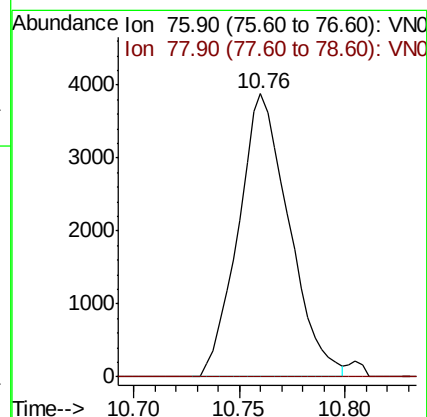
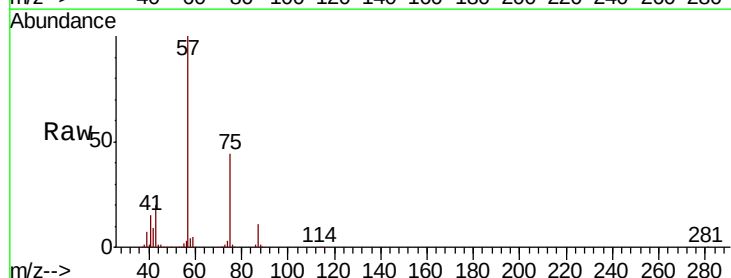
Acq: 30 Aug 2019 21:44

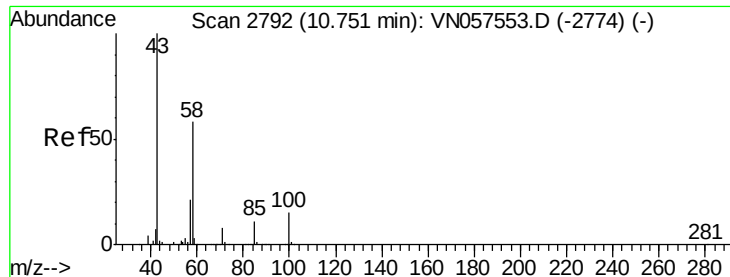
Tgt Ion: 76 Resp: 6492

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#

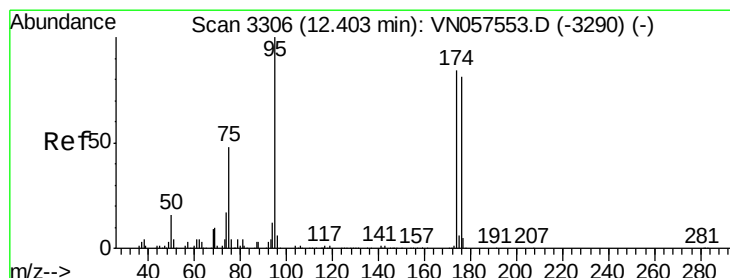
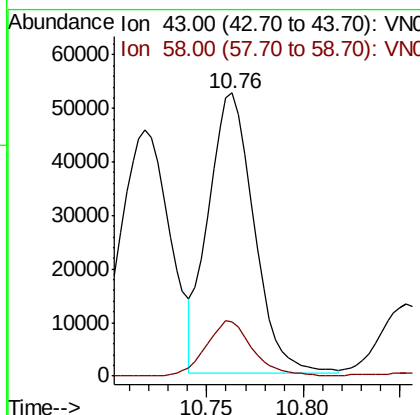
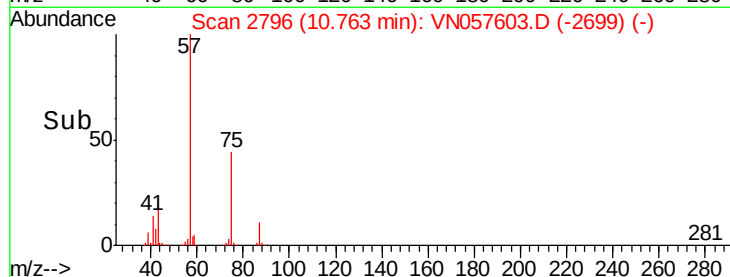
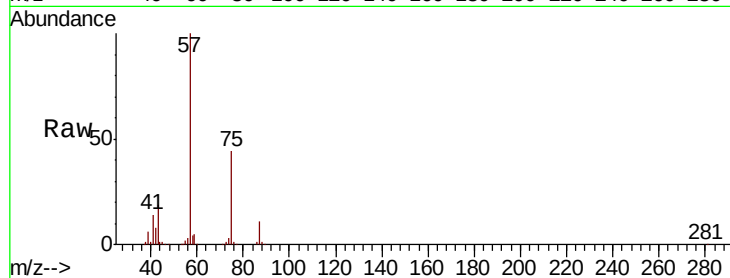




#59
2-Hexanone
Concen: 18.635 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057603.D
Acq: 30 Aug 2019 21:44

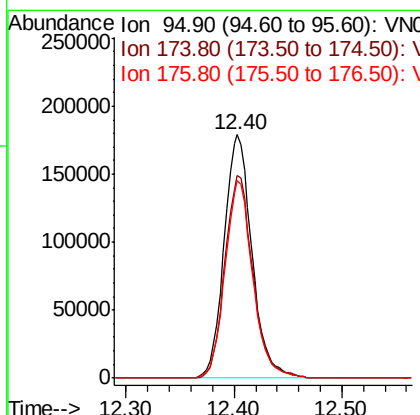
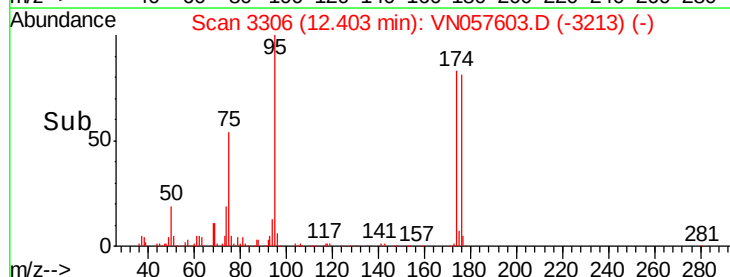
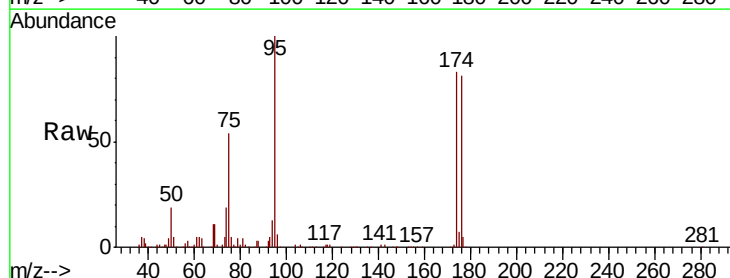
Instrument :
MSVOA_N
ClientSampled :
T4-S-D2-(2.5)

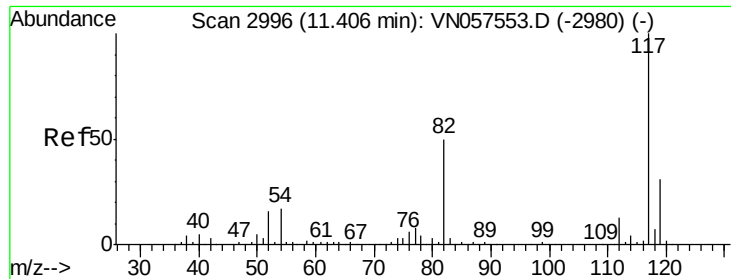
Tgt Ion: 43 Resp: 86161
Ion Ratio Lower Upper
43 100
58 20.3 24.6 73.6#



#62
4-Bromofluorobenzene
Concen: 32.276 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057603.D
Acq: 30 Aug 2019 21:44

Tgt Ion: 95 Resp: 320826
Ion Ratio Lower Upper
95 100
174 84.5 0.0 133.0
176 81.3 0.0 130.8

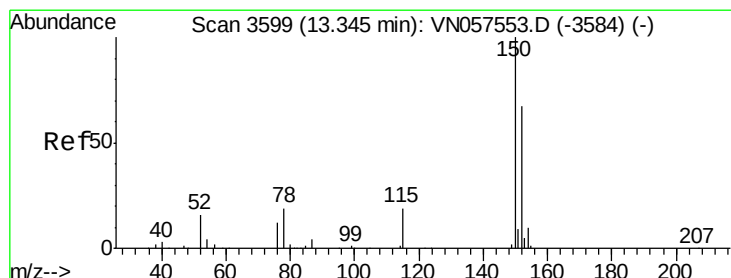
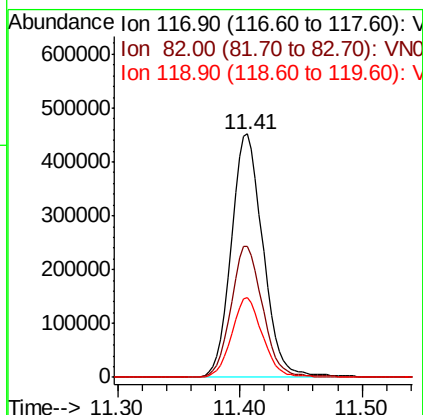
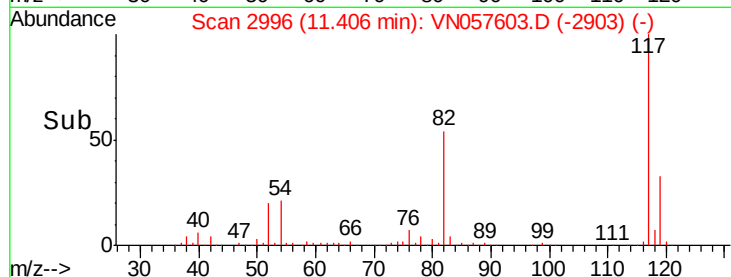
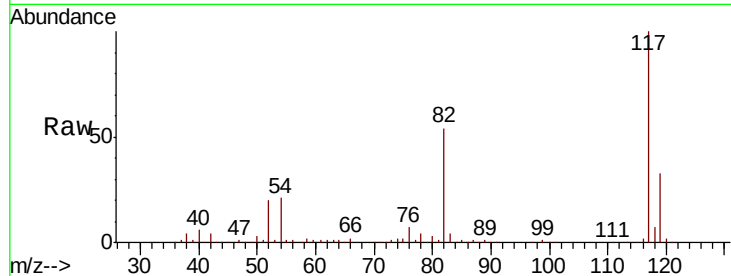




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN057603.D
Acq: 30 Aug 2019 21:44

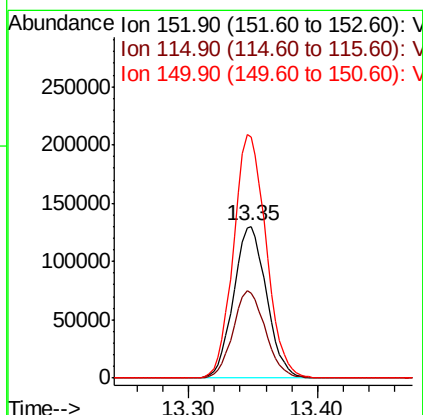
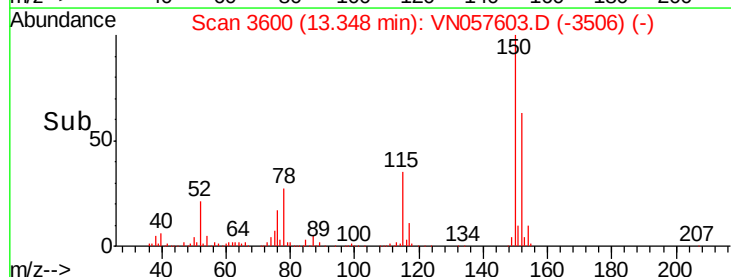
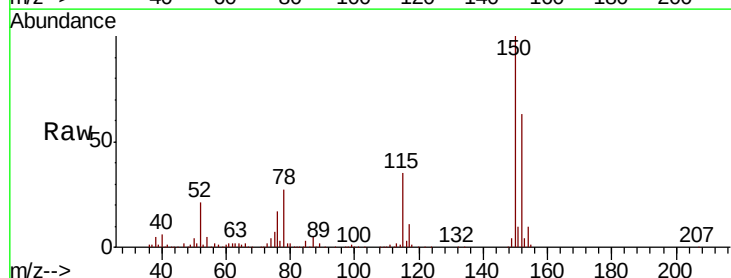
Instrument :
MSVOA_N
ClientSampleId :
T4-S-D2-(2.5)

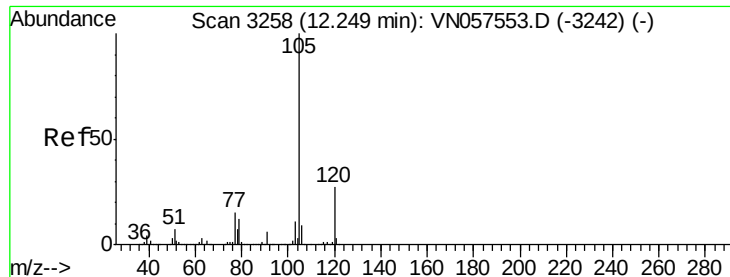
Tgt Ion:117 Resp: 818966
Ion Ratio Lower Upper
117 100
82 53.7 50.6 75.8
119 32.9 24.6 36.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057603.D
Acq: 30 Aug 2019 21:44

Tgt Ion:152 Resp: 230753
Ion Ratio Lower Upper
152 100
115 57.0 32.0 96.0
150 159.0 0.0 346.6





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. 0.16 min

Lab File: VN057603.D

Acq: 30 Aug 2019 21:44

Instrument :

MSVOA_N

ClientSampleId :

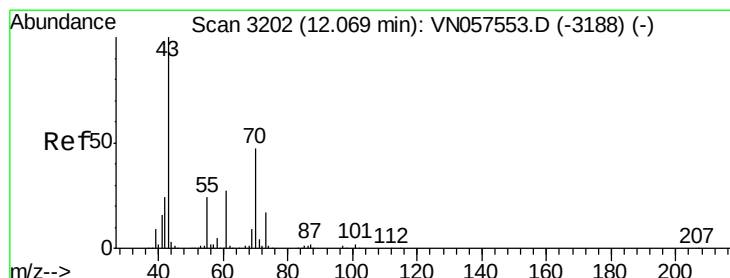
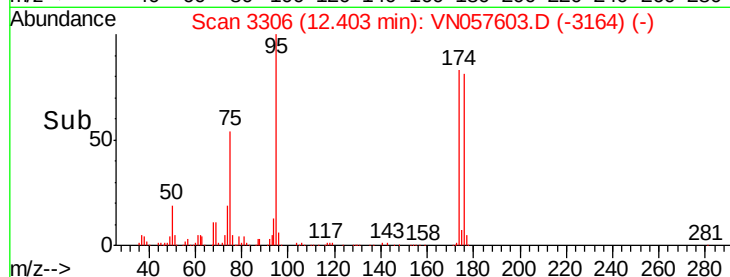
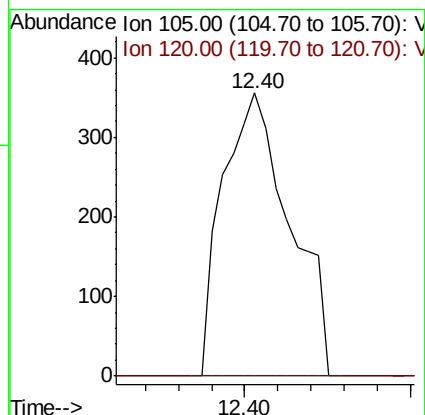
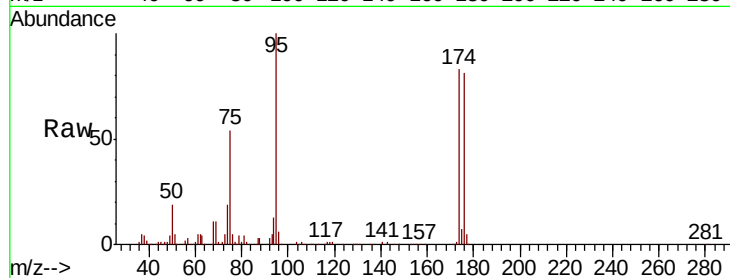
T4-S-D2-(2.5)

Tgt Ion: 105 Resp: 502

Ion Ratio Lower Upper

105 100

120 0.0 12.7 38.0#



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.03 min Scan# 3191

Delta R.T. -0.03 min

Lab File: VN057603.D

Acq: 30 Aug 2019 21:44

Tgt Ion: 43 Resp: 2147

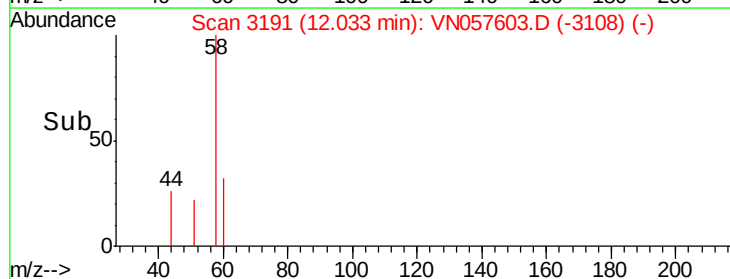
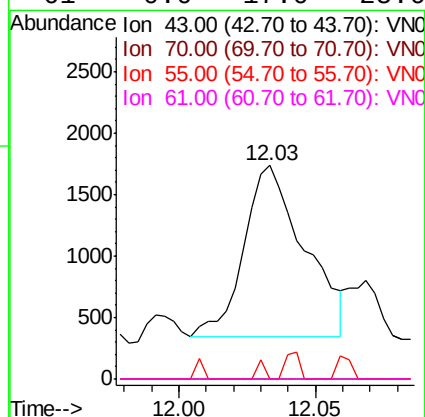
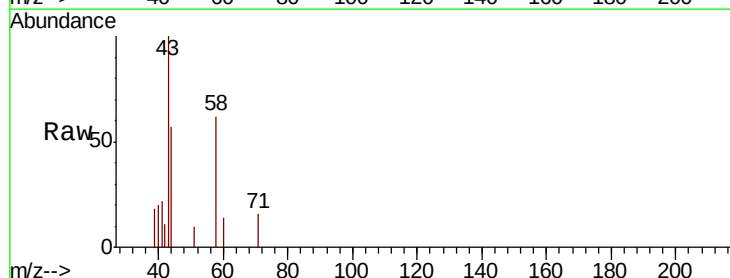
Ion Ratio Lower Upper

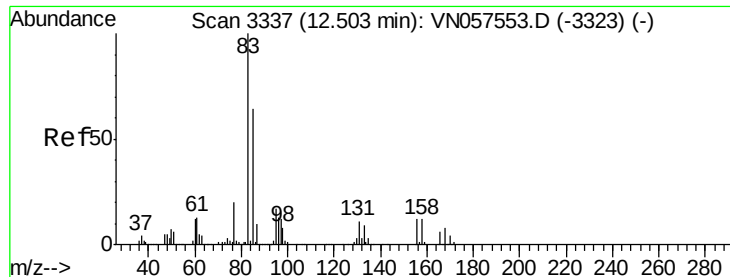
43 100

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: 12.40 min Scan# 3305

Delta R.T. -0.10 min

Lab File: VN057603.D

Acq: 30 Aug 2019 21:44

Instrument :

MSVOA_N

ClientSampled :

T4-S-D2-(2.5)

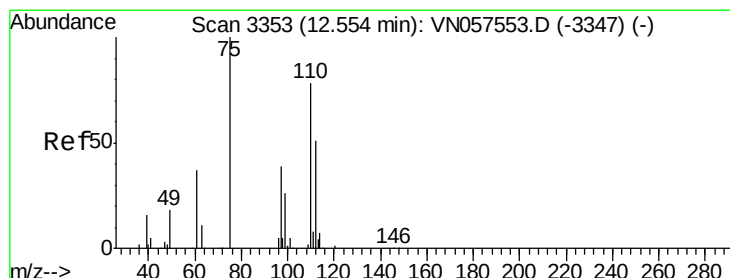
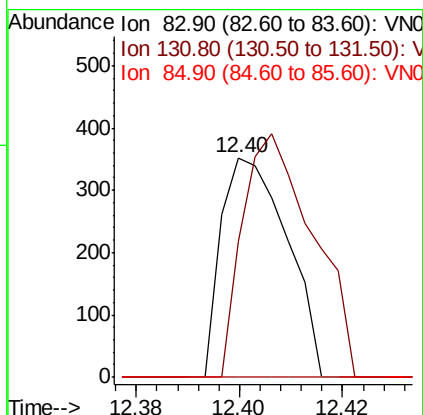
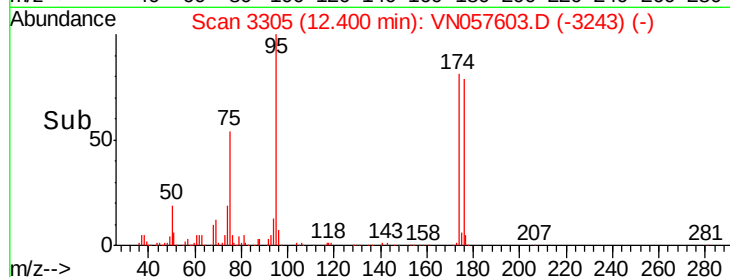
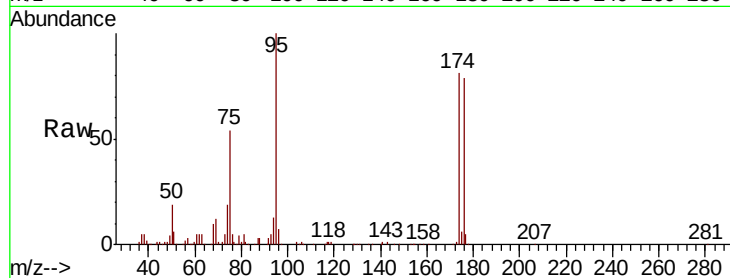
Tgt Ion: 83 Resp: 311

Ion Ratio Lower Upper

83 100

131 118.6 4.3 13.1#

85 0.0 32.3 96.8#



#76

1,2,3-Trichloropropane

Concen: 40.502 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057603.D

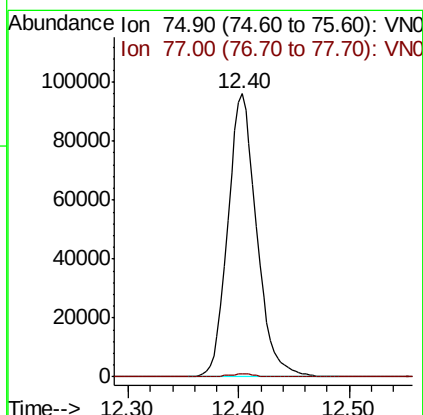
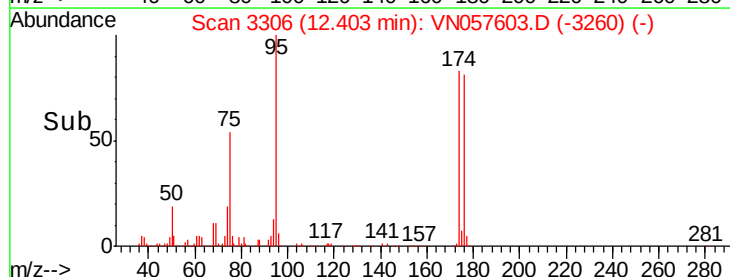
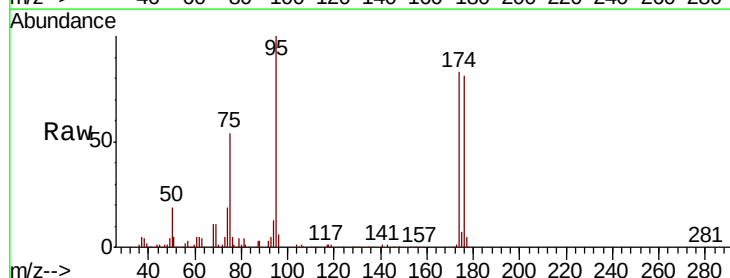
Acq: 30 Aug 2019 21:44

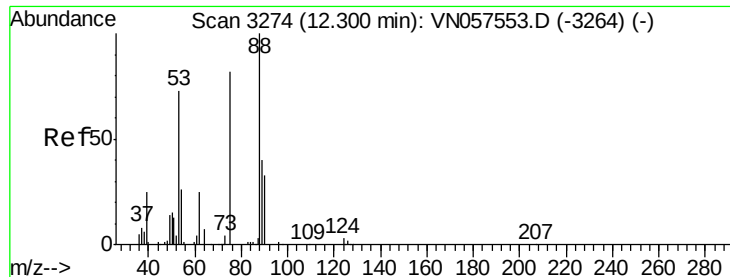
Tgt Ion: 75 Resp: 174568

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#

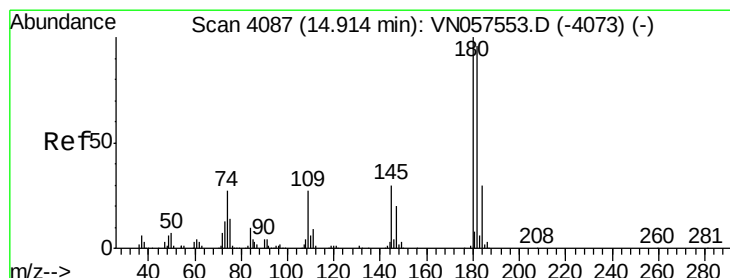
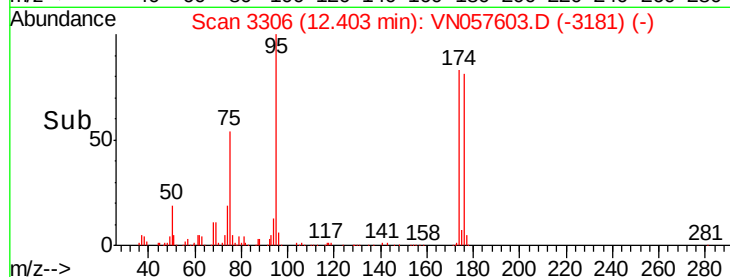
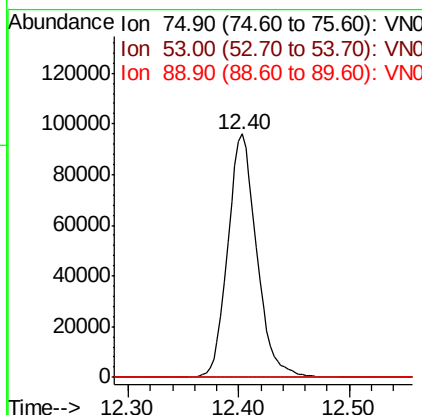
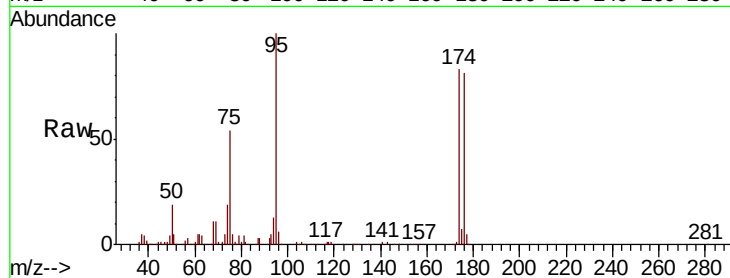




#81
 trans-1,4-Dichloro-2-butene
 Concen: 113.754 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057603.D
 Acq: 30 Aug 2019 21:44

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-S-D2-(2.5)

Tgt Ion: 75 Resp: 174568
 Ion Ratio Lower Upper
 75 100
 53 0.0 82.7 124.1#
 89 0.0 35.8 53.8#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.878 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN057603.D
 Acq: 30 Aug 2019 21:44

Tgt Ion: 180 Resp: 328
 Ion Ratio Lower Upper
 180 100
 182 37.2 46.7 140.1#
 145 0.0 15.6 46.8#

