

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021020\
 Data File : VN060045.D
 Acq On : 10 Feb 2020 14:48
 Operator : JC/MD
 Sample : PB126661ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 11 07:08:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	194497	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	308666	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	293161	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	134689	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	115051	53.27	ug/l	0.00
Spiked Amount			Recovery	=	106.54%	
35) Dibromofluoromethane	7.57	113	93631	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
50) Toluene-d8	10.08	98	374255	52.48	ug/l	0.00
Spiked Amount			Recovery	=	104.96%	
62) 4-Bromofluorobenzene	12.40	95	135415	52.67	ug/l	0.00
Spiked Amount			Recovery	=	105.34%	

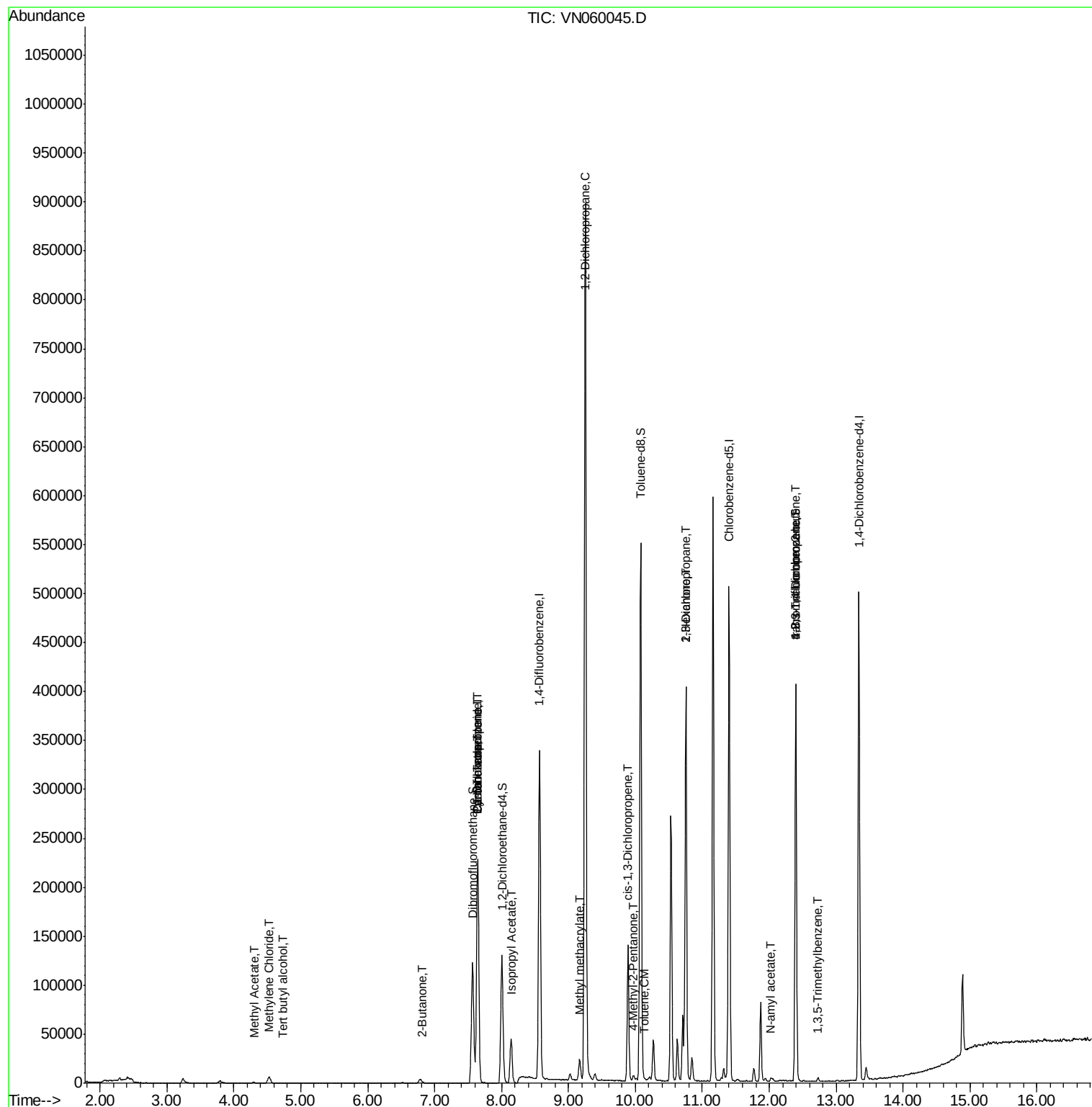
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	124	0.341	ug/l #	72
16) Acetone	3.79	43	4797	Below Cal		95
18) Methyl Acetate	4.30	43	1091	0.432	ug/l #	54
20) Methylene Chloride	4.53	84	5080	1.340	ug/l	87
25) 2-Butanone	6.82	43	1689	1.381	ug/l #	50
31) Cyclohexane	7.64	56	3794	1.187	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	14028	5.219	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18698	6.395	ug/l #	15
43) Isopropyl Acetate	8.14	43	54519	12.573	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1172	0.591	ug/l #	44
48) Methyl methacrylate	9.16	41	3675	1.895	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3452	1.377	ug/l	94
52) Toluene	10.15	92	1018	0.201	ug/l	93
54) cis-1,3-Dichloropropene	9.89	75	25671	7.749	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	4318	1.356	ug/l #	42
59) 2-Hexanone	10.75	43	57711	31.251	ug/l #	56
74) N-amyl acetate	12.02	43	3213	0.838	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	69546	30.682	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2295	0.276	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	69546	65.889	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.28	75	138	Below Cal	#	6

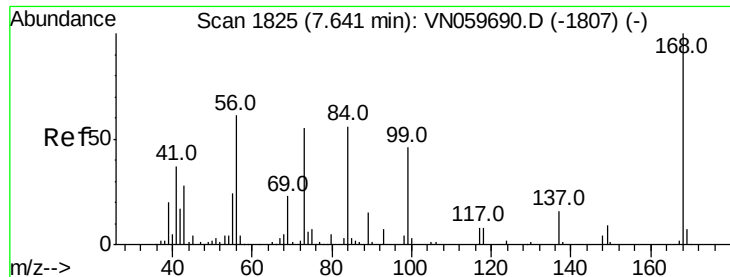
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060045.D

Acq: 10 Feb 2020 14:48

Instrument :

MSVOA_N

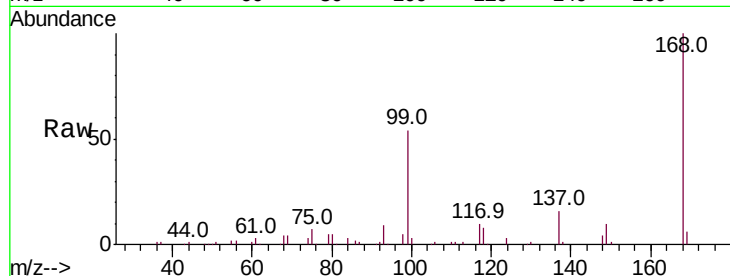
ClientSampleId :

Tot Ion:168 Resp: 194497

Ion Ratio Lower Upper

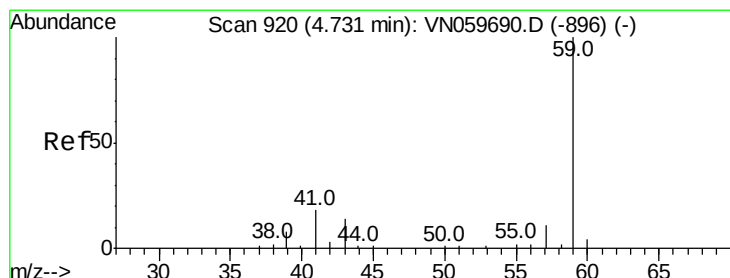
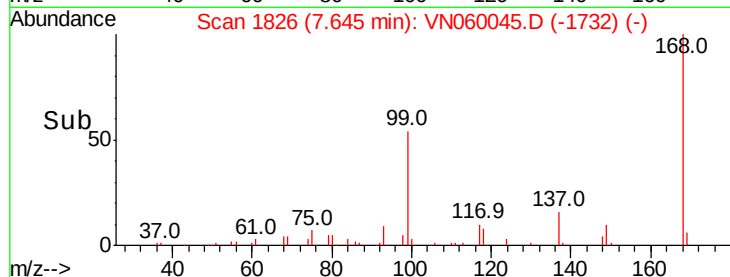
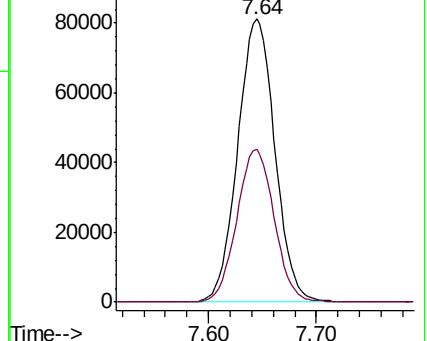
168 100

99 53.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.341 ug/l

RT: 4.73 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN060045.D

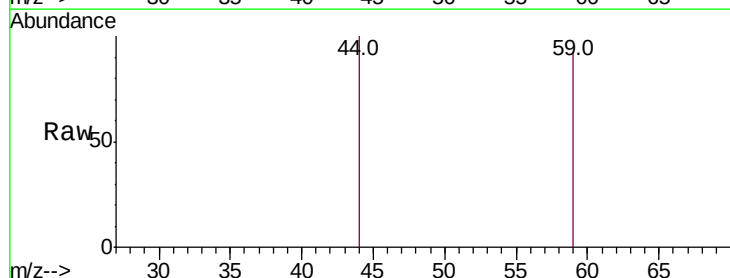
Acq: 10 Feb 2020 14:48

Tgt Ion: 59 Resp: 124

Ion Ratio Lower Upper

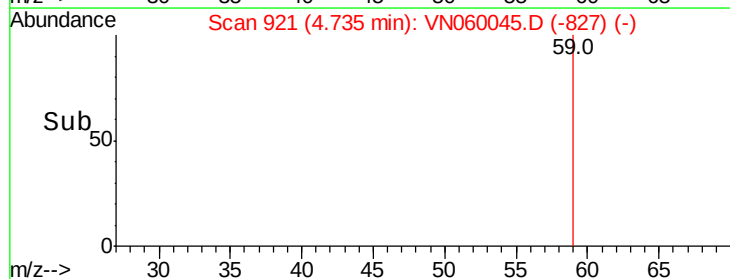
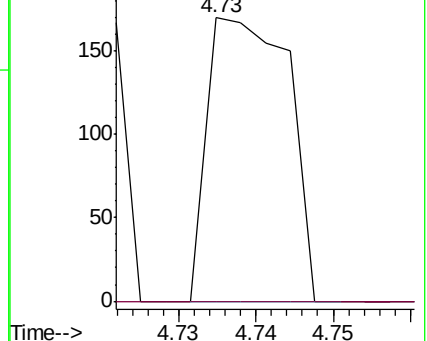
59 100

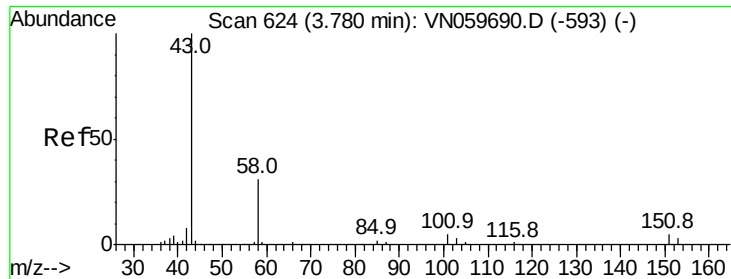
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060045.D

Acq: 10 Feb 2020 14:48

Instrument :

MSVOA_N

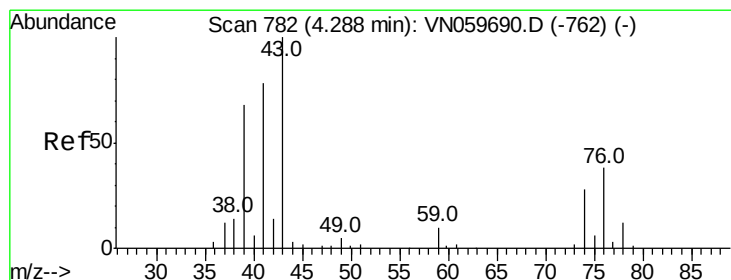
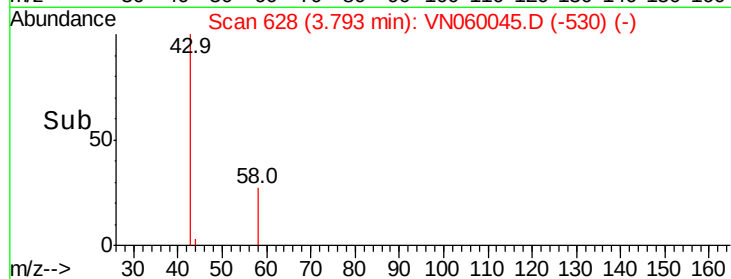
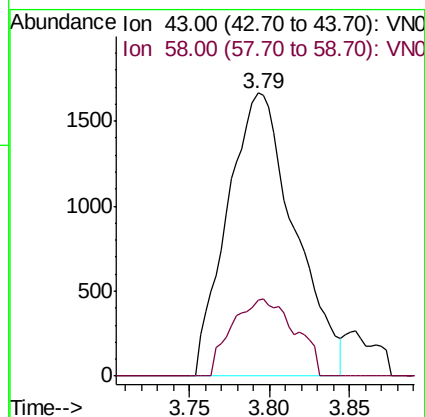
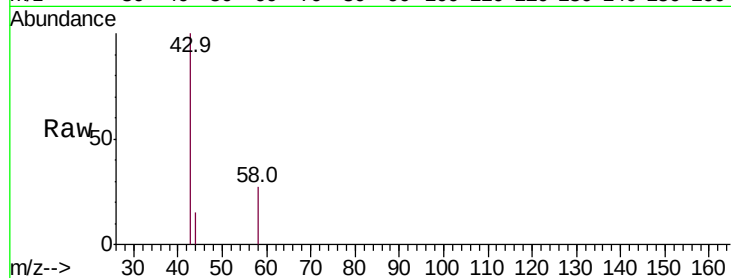
ClientSampled :

Tot Ion: 43 Resp: 4797

Ion Ratio Lower Upper

43 100

58 26.7 23.6 35.4



#18

Methyl Acetate

Concen: 0.432 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.01 min

Lab File: VN060045.D

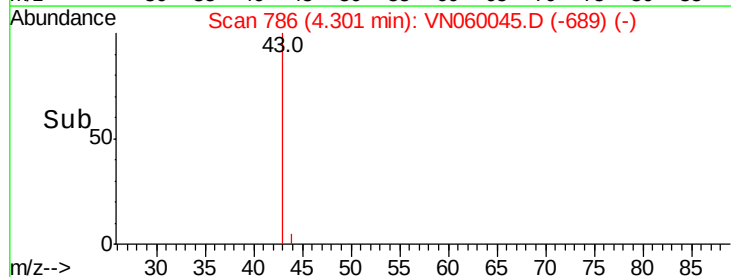
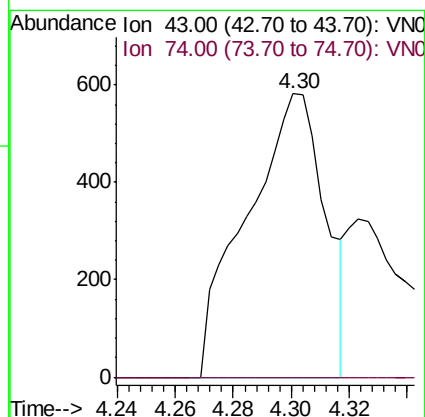
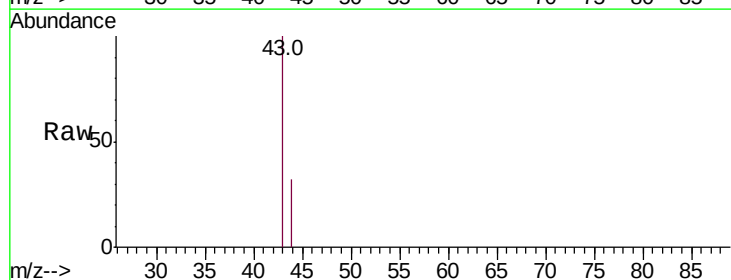
Acq: 10 Feb 2020 14:48

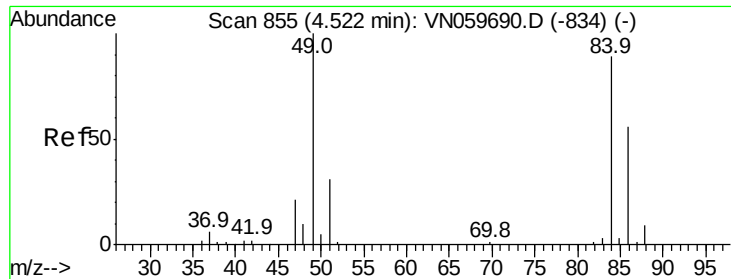
Tgt Ion: 43 Resp: 1091

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#

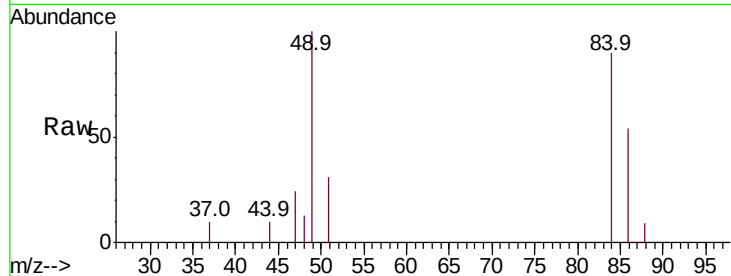




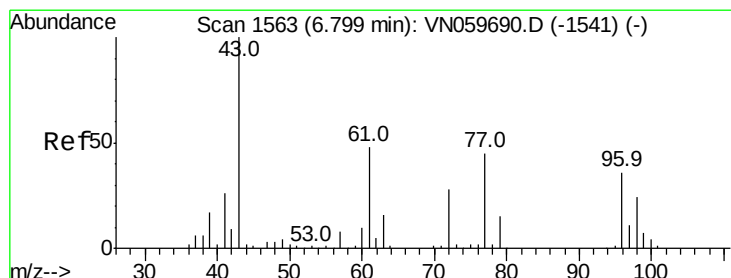
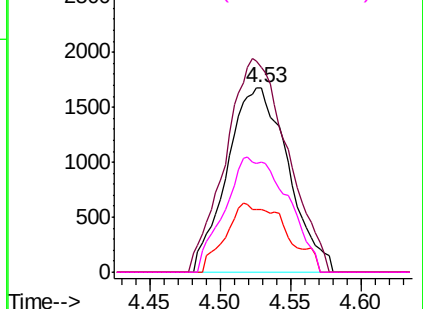
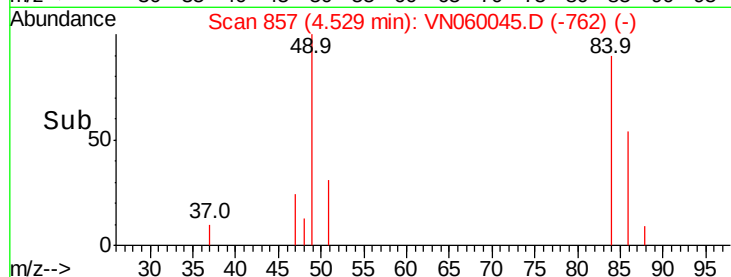
#20
Methvlene Chloride
Concen: 1.340 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060045.D
Acq: 10 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	5080
Ion	Ratio	Lower	Upper
84	100		
49	111.2	106.6	160.0
51	34.2	31.9	47.9
86	59.9	50.8	76.2

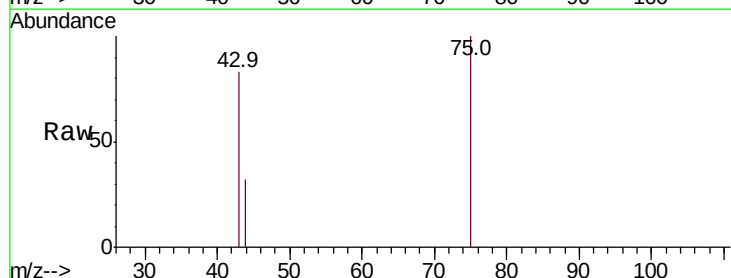


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

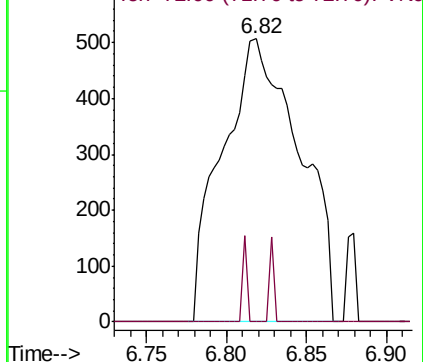
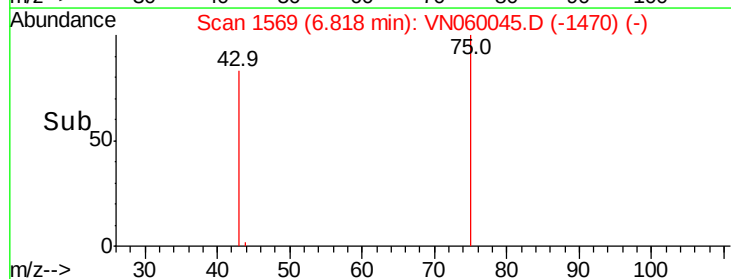


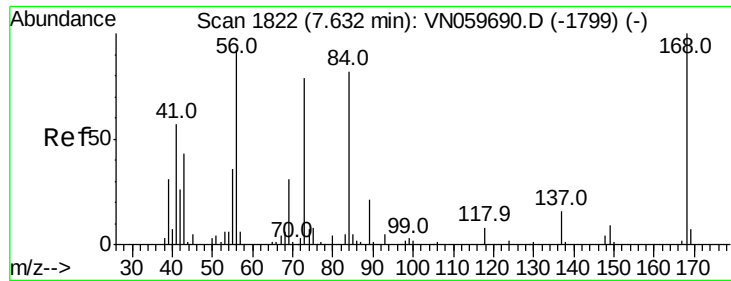
#25
2-Butanone
Concen: 1.381 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VN060045.D
Acq: 10 Feb 2020 14:48

Tgt Ion:	43	Resp:	1689
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.9	29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

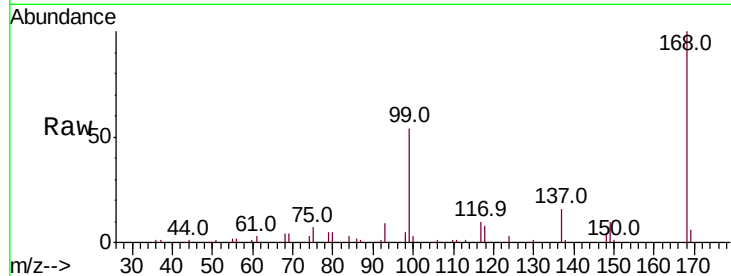




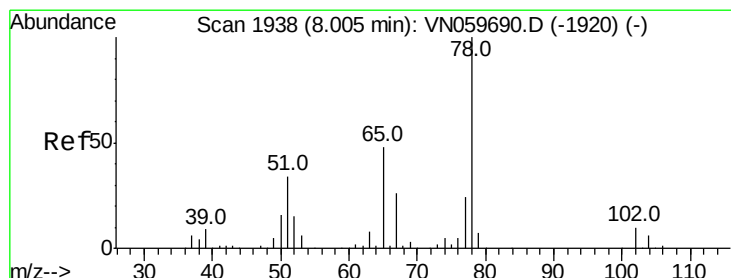
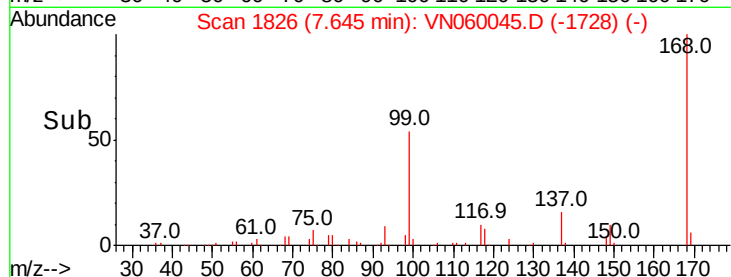
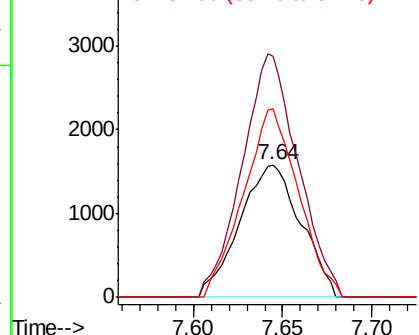
#31
Cyclohexane
Concen: 1.187 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060045.D
Acq: 10 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3794
Ion Ratio Lower Upper
56 100
69 181.8 26.5 39.7#
84 141.6 65.3 97.9#

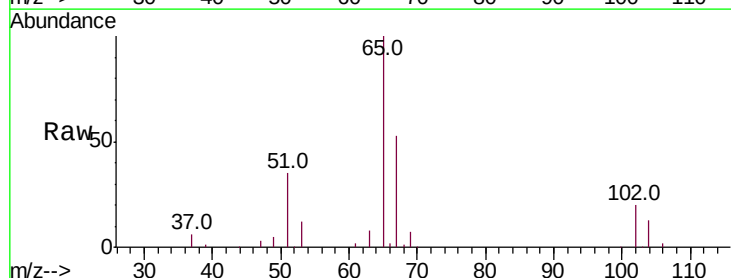


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

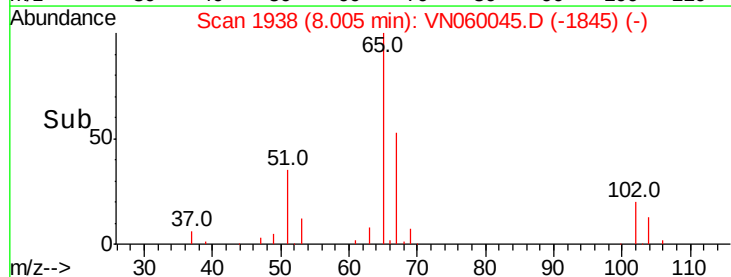
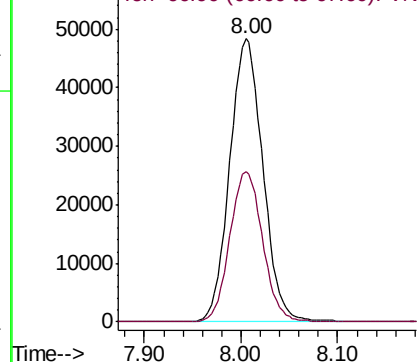


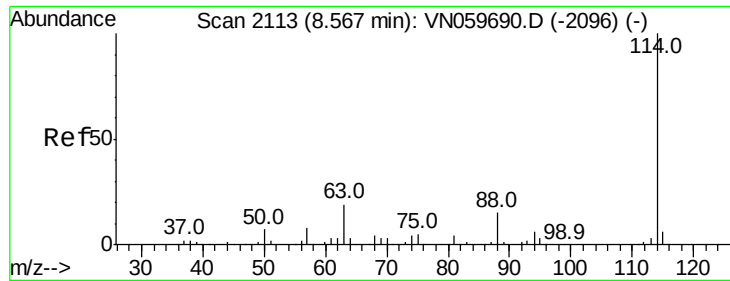
#33
1,2-Dichloroethane-d4
Concen: 53.266 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060045.D
Acq: 10 Feb 2020 14:48

Tgt Ion: 65 Resp: 115051
Ion Ratio Lower Upper
65 100
67 52.6 0.0 103.0



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

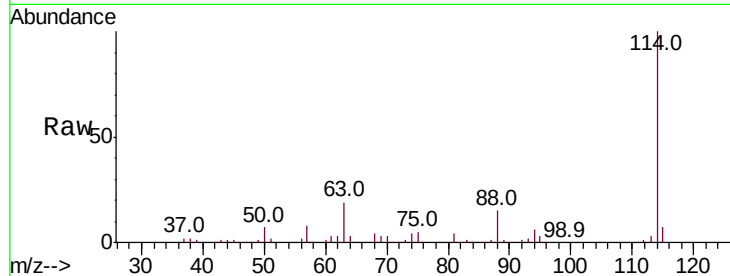




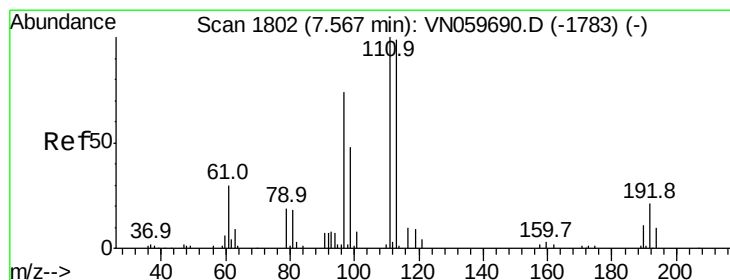
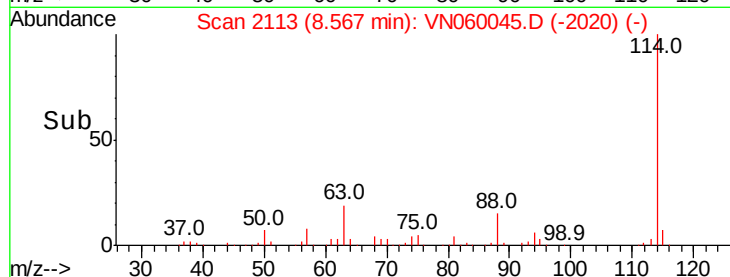
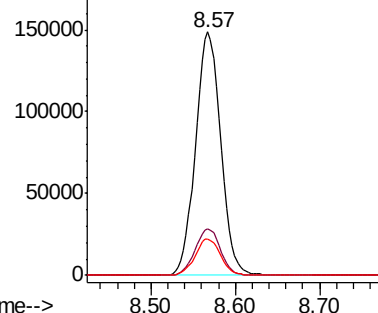
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060045.D
 Acq: 10 Feb 2020 14:48

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 308666
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 43.6
 88 14.9 0.0 31.4

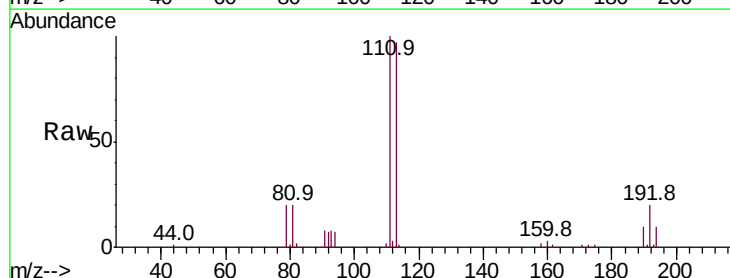


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

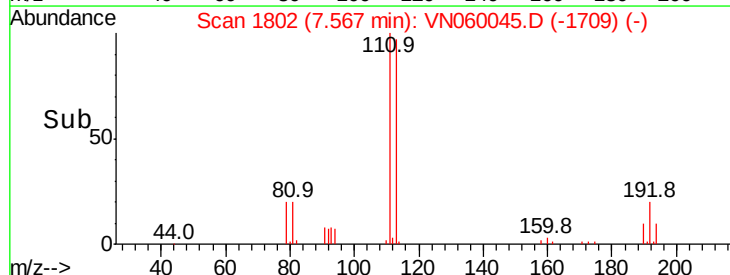
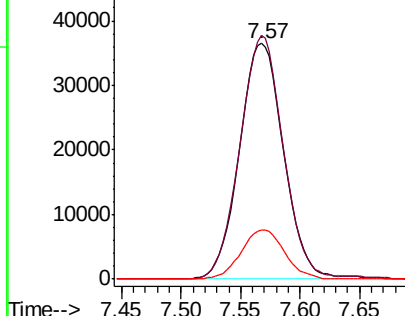


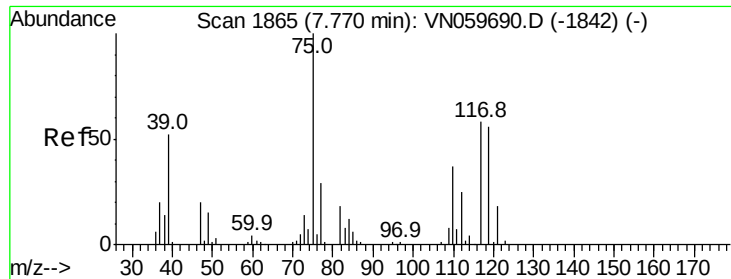
#35
 Dibromofluoromethane
 Concen: 50.867 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060045.D
 Acq: 10 Feb 2020 14:48

Tgt Ion:113 Resp: 93631
 Ion Ratio Lower Upper
 113 100
 111 102.4 83.5 125.3
 192 20.6 15.4 23.2



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

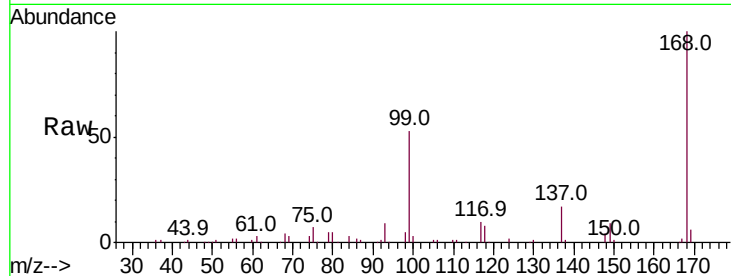




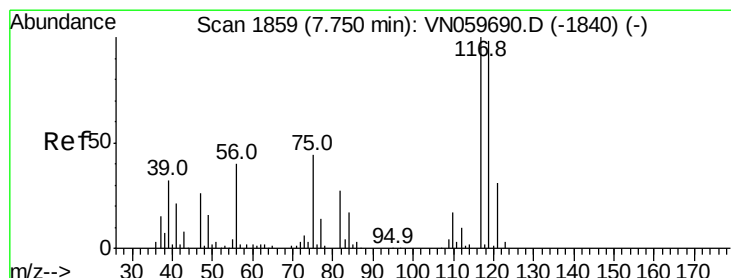
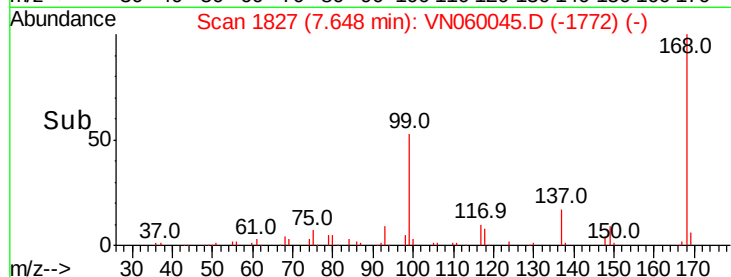
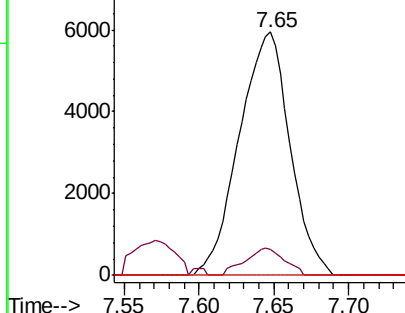
#36
 1,1-Dichloropropene
 Concen: 5.219 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.12 min
 Lab File: VN060045.D
 Acq: 10 Feb 2020 14:48

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 14028
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.6 49.7#
 77 0.0 25.1 37.7#

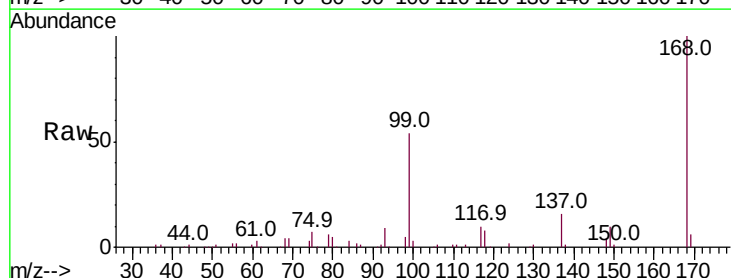


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

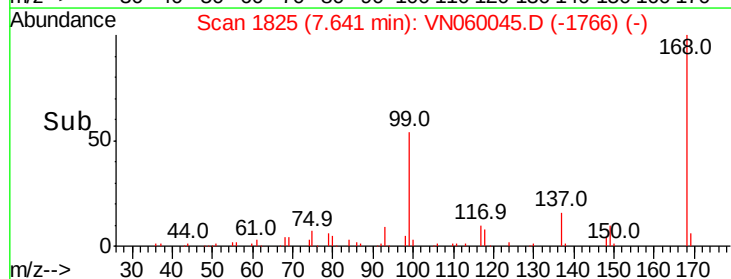
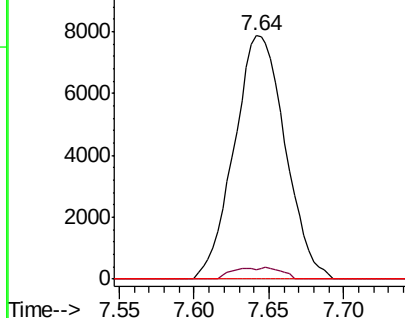


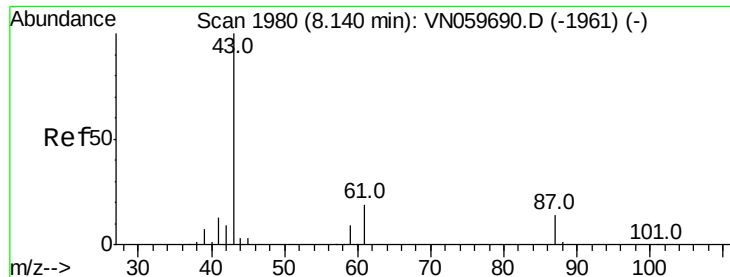
#38
 Carbon Tetrachloride
 Concen: 6.395 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060045.D
 Acq: 10 Feb 2020 14:48

Tgt Ion: 117 Resp: 18698
 Ion Ratio Lower Upper
 117 100
 119 4.0 76.5 114.7#
 121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 12.573 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060045.D

Acq: 10 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampleId :

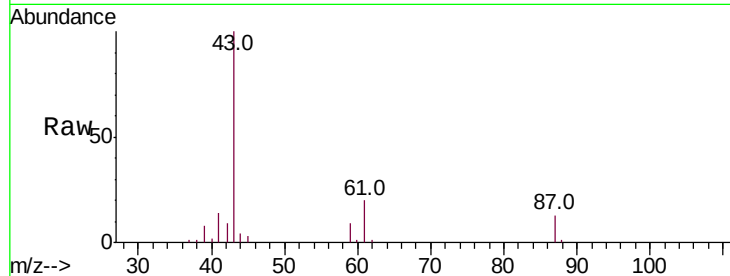
Tot Ion: 43 Resp: 54519

Ion Ratio Lower Upper

43 100

61 19.5 20.2 30.2#

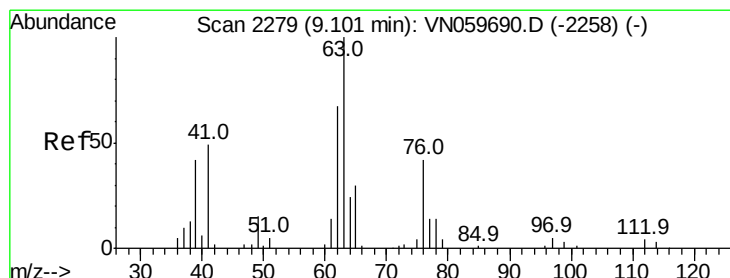
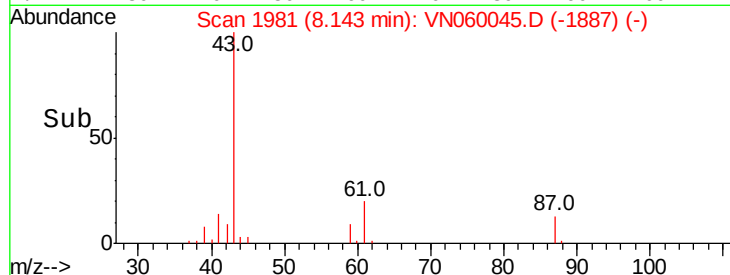
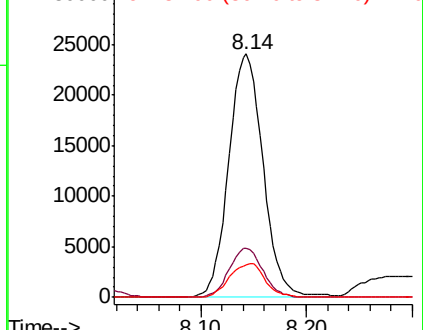
87 14.3 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#45

1,2-Dichloropropane

Concen: 0.591 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060045.D

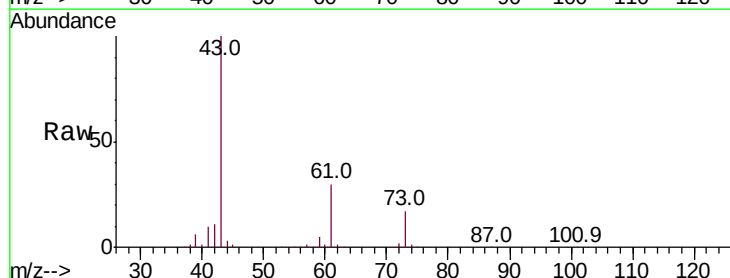
Acq: 10 Feb 2020 14:48

Tgt Ion: 63 Resp: 1172

Ion Ratio Lower Upper

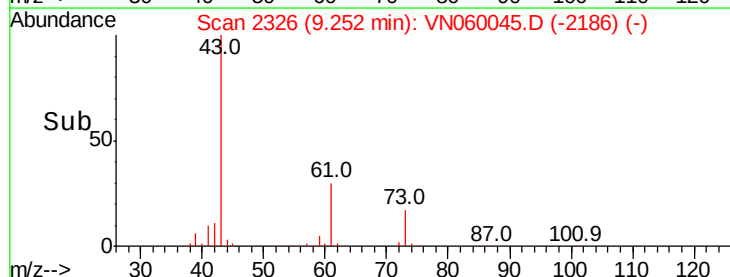
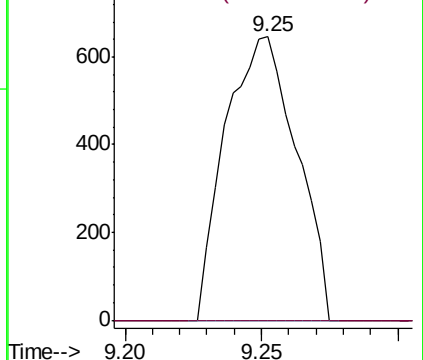
63 100

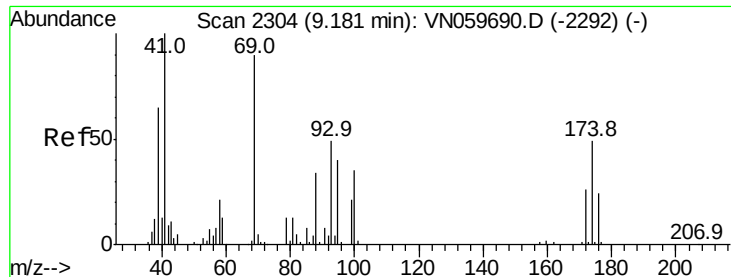
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

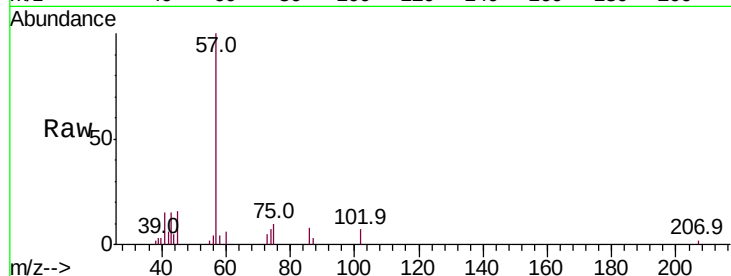




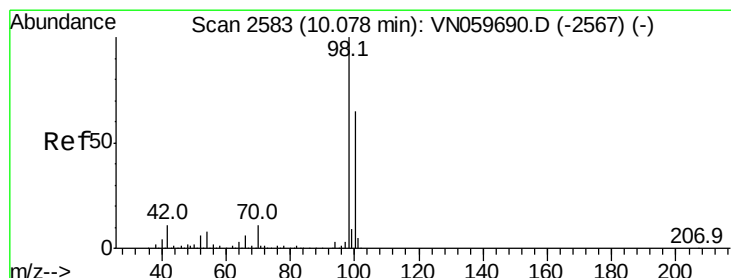
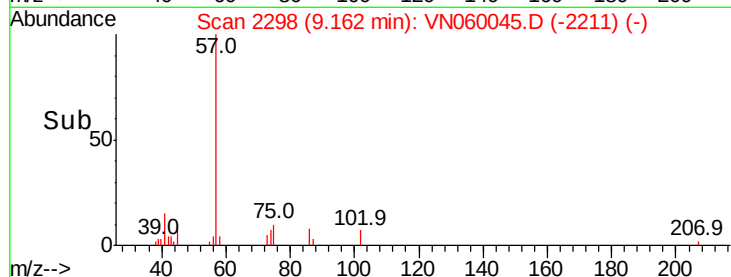
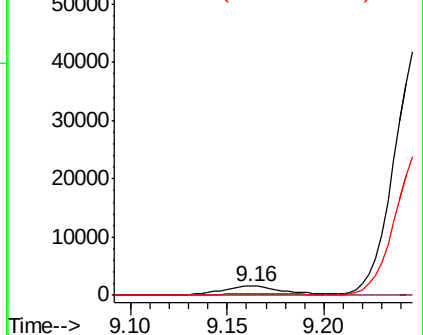
#48
Methvl methacrylate
Concen: 1.895 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060045.D
Acq: 10 Feb 2020 14:48

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 3675
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

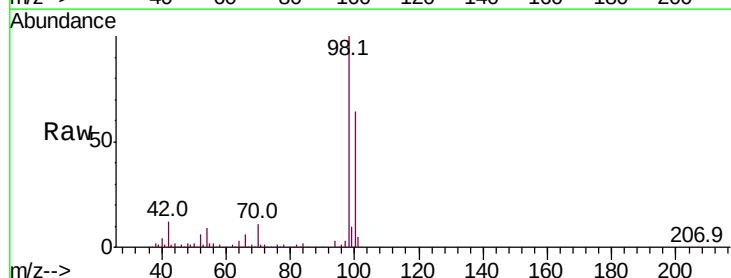


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

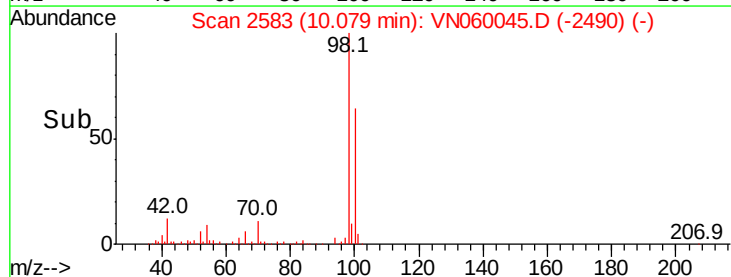
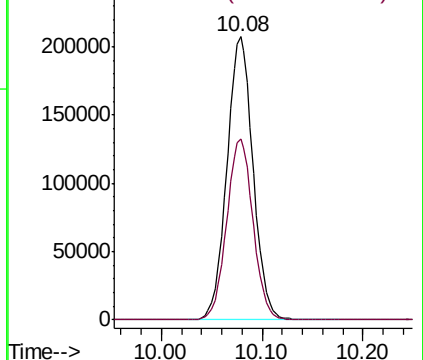


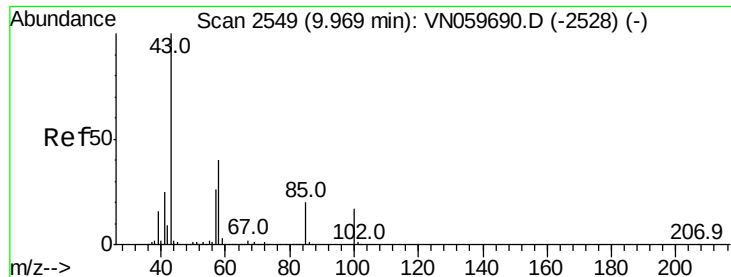
#50
Toluene-d8
Concen: 52.477 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060045.D
Acq: 10 Feb 2020 14:48

Tgt Ion: 98 Resp: 374255
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



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

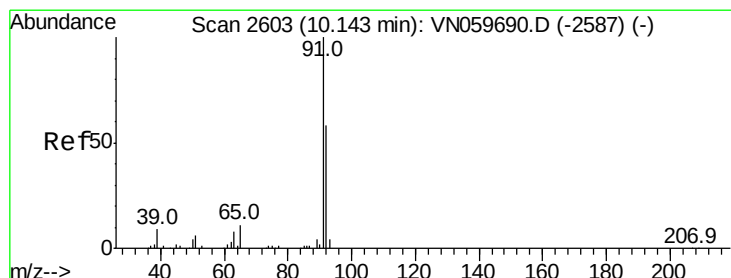
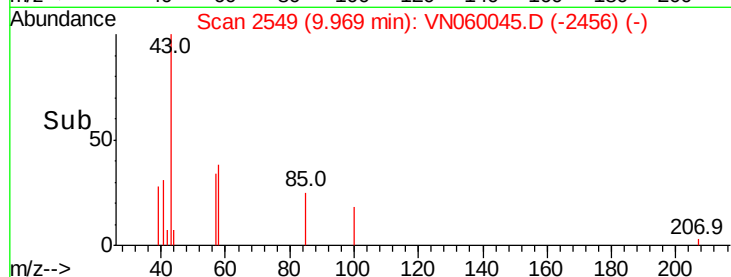
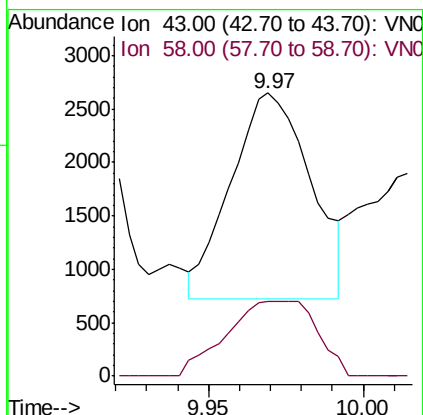
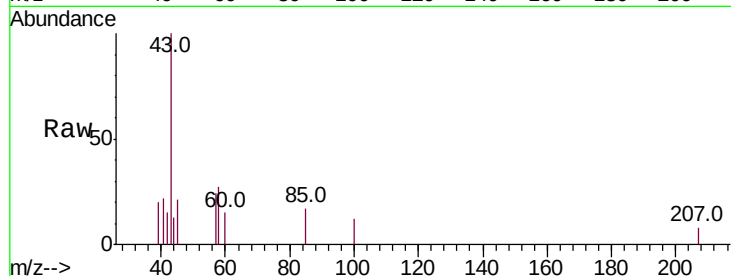




#51
4-Methyl-2-Pentanone
Concen: 1.377 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN060045.D
Acq: 10 Feb 2020 14:48

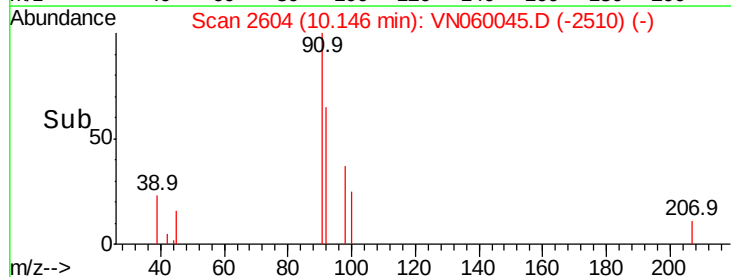
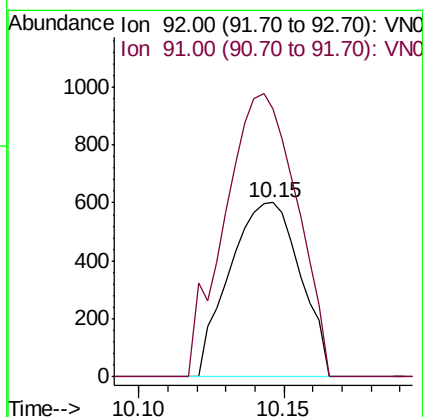
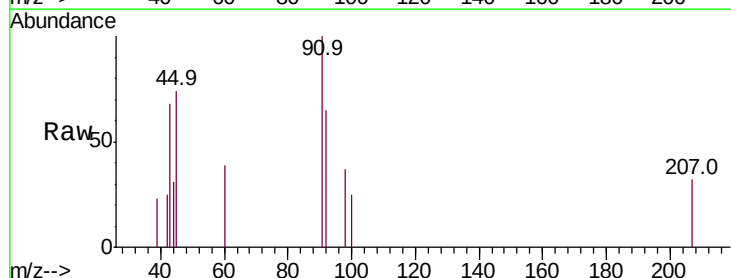
Instrument :
MSVOA_N
ClientSampled :

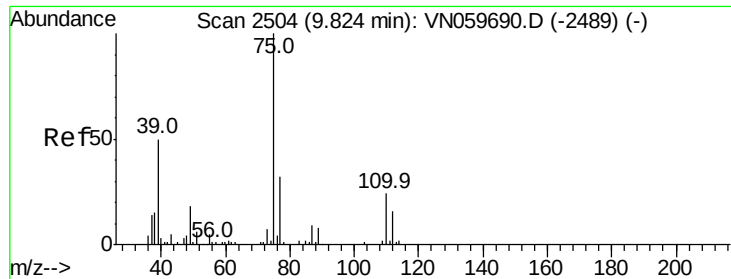
Tot Ion: 43 Resp: 3452
Ion Ratio Lower Upper
43 100
58 41.2 29.8 44.8



#52
Toluene
Concen: 0.201 ug/l
RT: 10.15 min Scan# 2604
Delta R.T. 0.00 min
Lab File: VN060045.D
Acq: 10 Feb 2020 14:48

Tgt Ion: 92 Resp: 1018
Ion Ratio Lower Upper
92 100
91 165.3 140.4 210.6





#54

cis-1,3-Dichloropropene

Concen: 7.749 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060045.D

Acq: 10 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampleId :

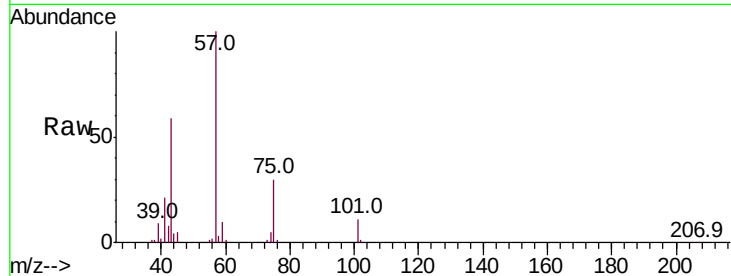
Tot Ion: 75 Resp: 25671

Ion Ratio Lower Upper

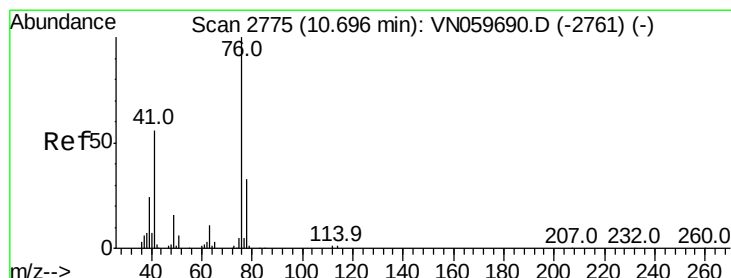
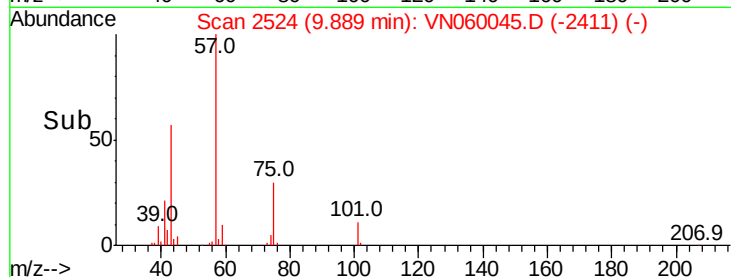
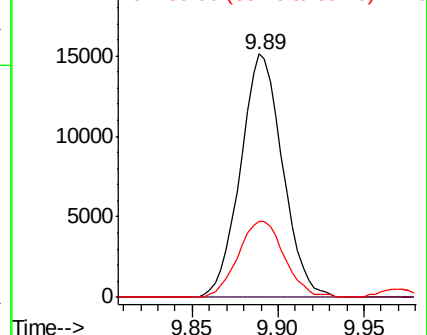
75 100

77 0.0 25.1 37.7#

39 31.1 46.1 69.1#



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



#57

1,3-Dichloropropane

Concen: 1.356 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060045.D

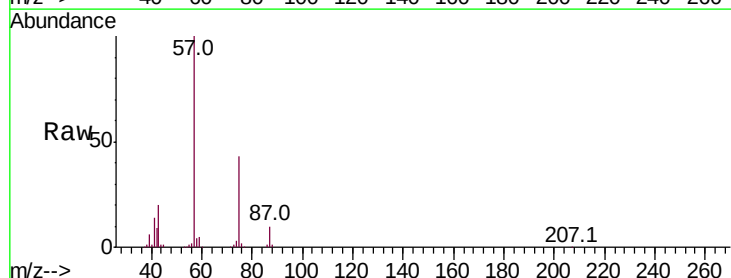
Acq: 10 Feb 2020 14:48

Tgt Ion: 76 Resp: 4318

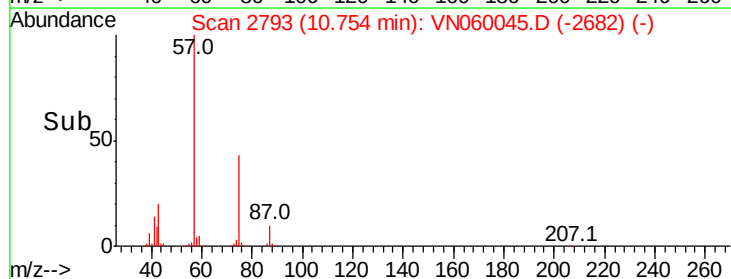
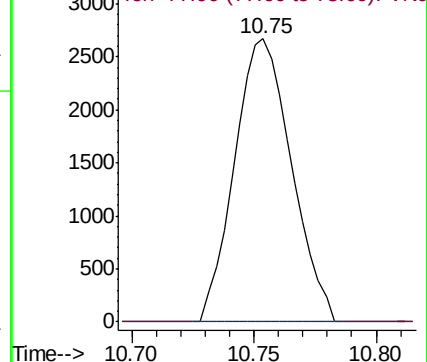
Ion Ratio Lower Upper

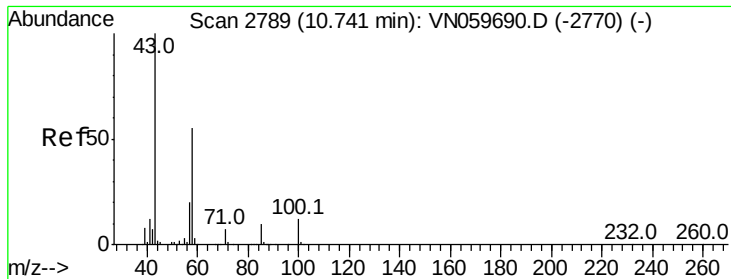
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

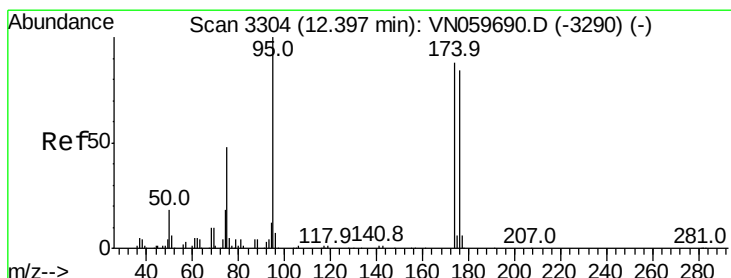
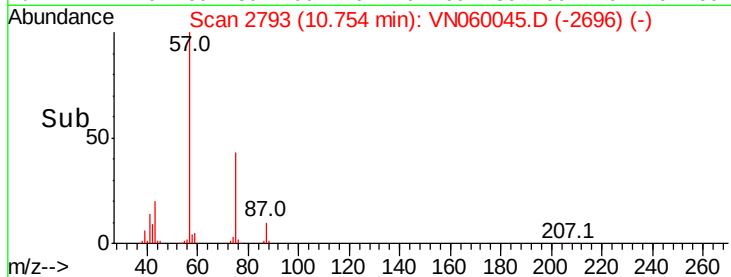
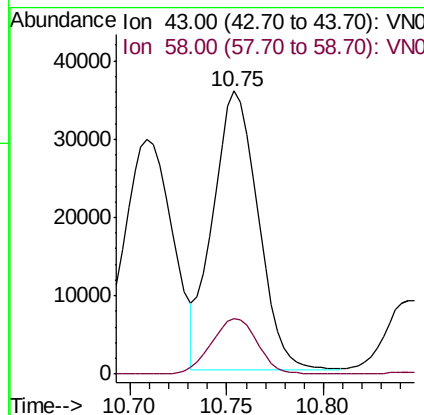
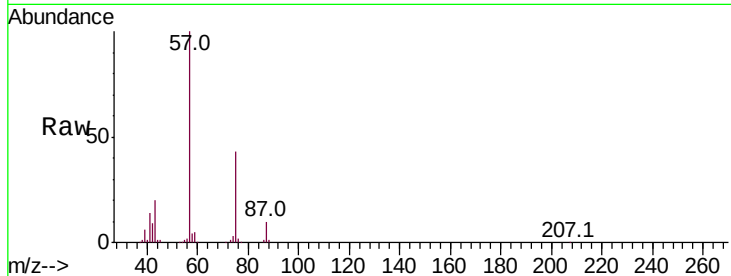




#59
2-Hexanone
Concen: 31.251 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060045.D
Acq: 10 Feb 2020 14:48

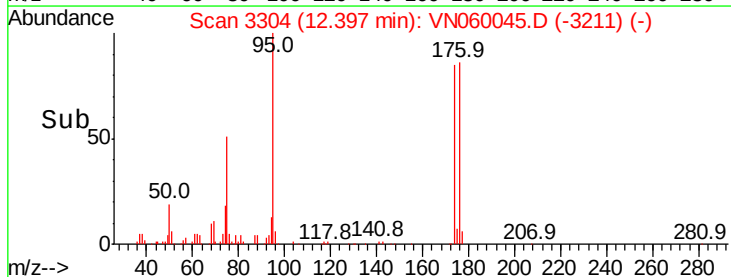
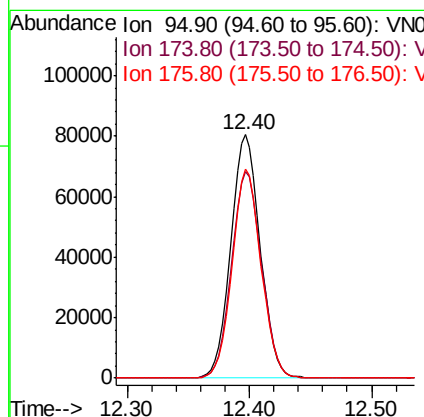
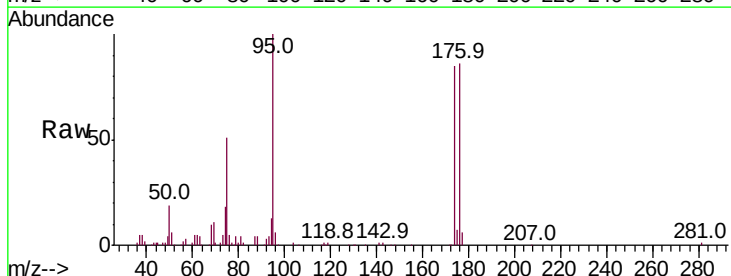
Instrument :
MSVOA_N
ClientSampled :

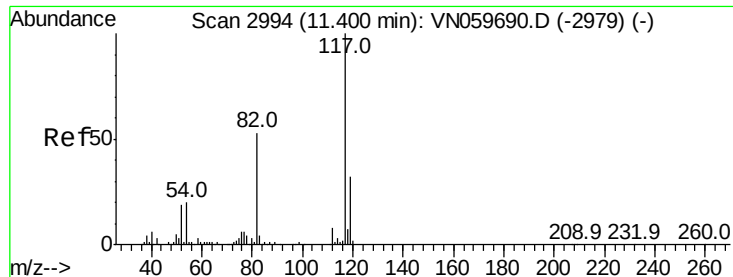
Tot Ion: 43 Resp: 57711
Ion Ratio Lower Upper
43 100
58 20.4 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 52.670 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060045.D
Acq: 10 Feb 2020 14:48

Tgt Ion: 95 Resp: 135415
Ion Ratio Lower Upper
95 100
174 86.3 0.0 151.4
176 84.4 0.0 146.0

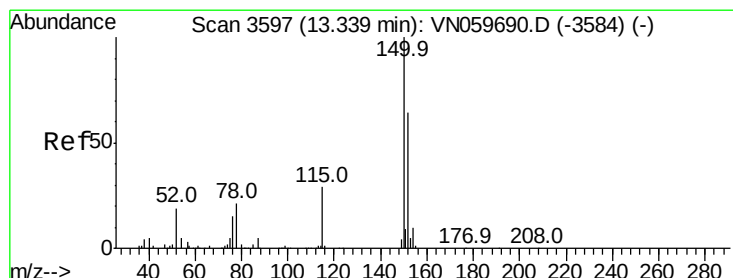
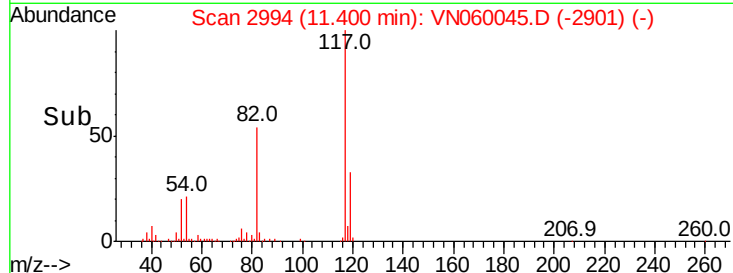
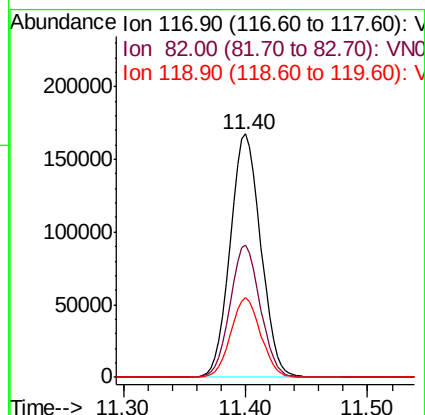
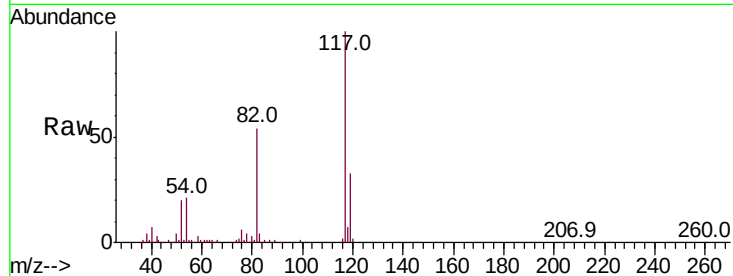




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060045.D
Acq: 10 Feb 2020 14:48

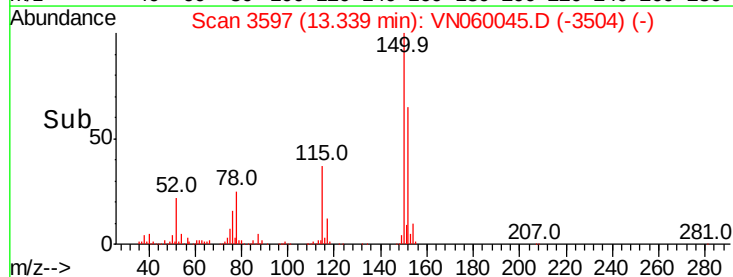
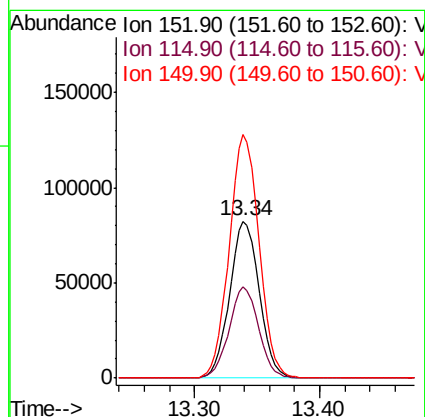
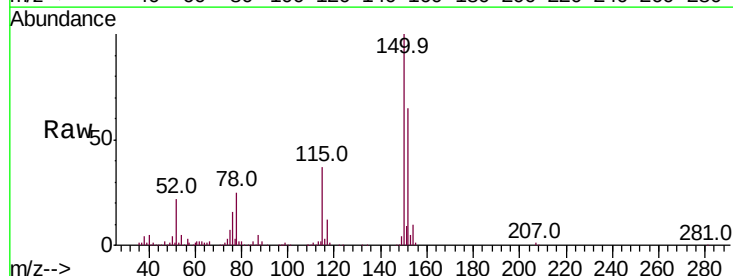
Instrument :
MSVOA_N
ClientSampleId :

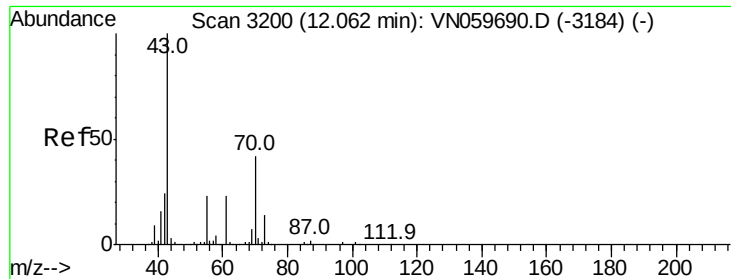
Tot Ion:117 Resp: 293161
Ion Ratio Lower Upper
117 100
82 54.4 45.9 68.9
119 32.5 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060045.D
Acq: 10 Feb 2020 14:48

Tgt Ion:152 Resp: 134689
Ion Ratio Lower Upper
152 100
115 58.1 30.3 90.9
150 156.6 0.0 345.2





#74

N-amyl acetate

Concen: 0.838 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060045.D

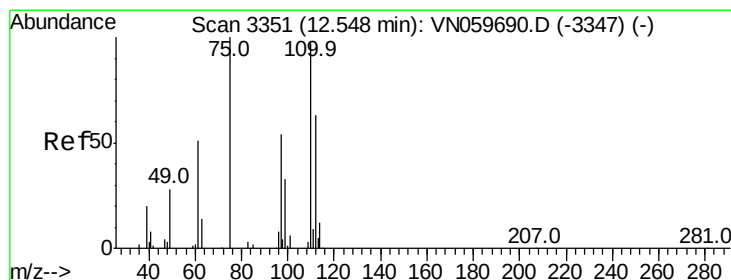
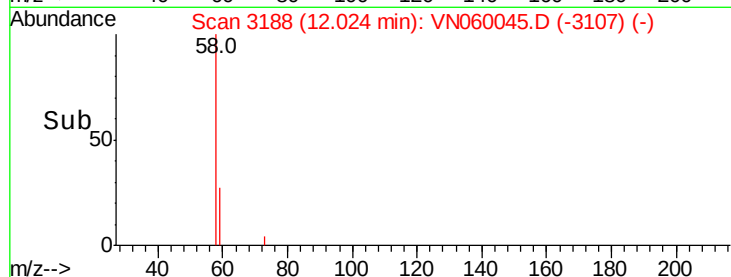
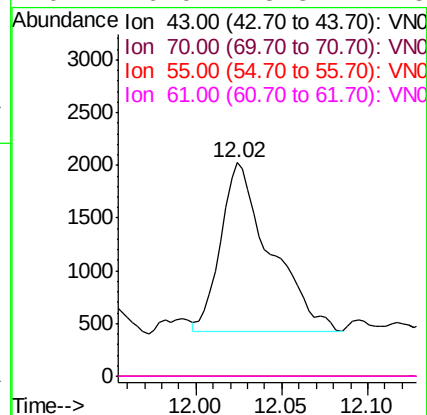
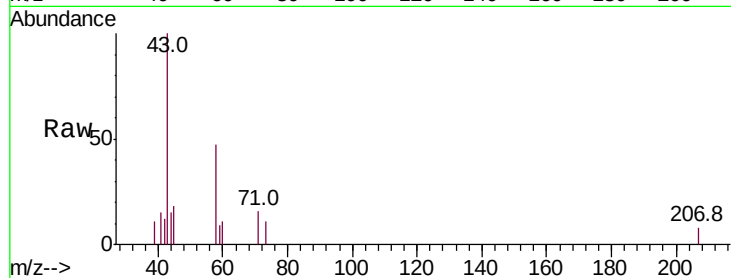
Acq: 10 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	43	Resp:	3213
Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.3	46.9#
55	0.0	19.8	29.6#
61	0.0	18.3	27.5#



#76

1,2,3-Trichloropropane

Concen: 30.682 ug/l

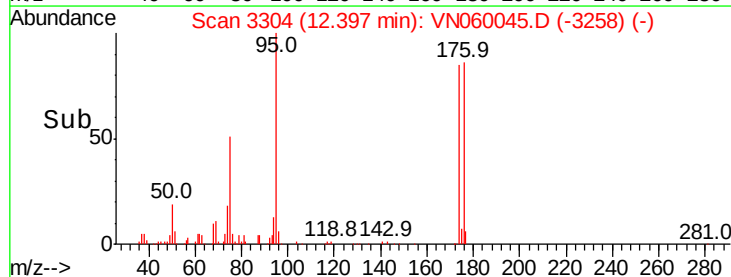
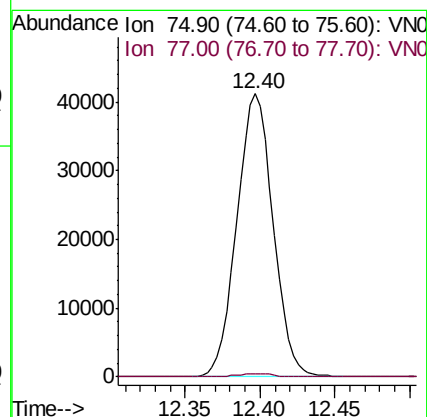
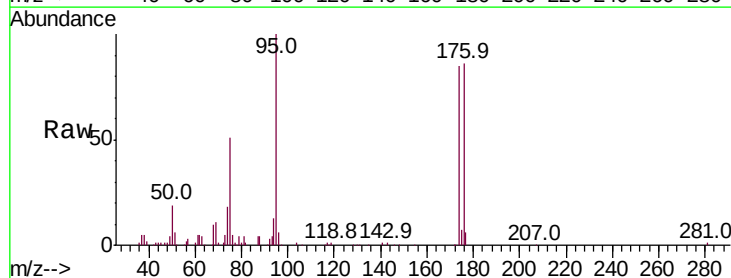
RT: 12.40 min Scan# 3304

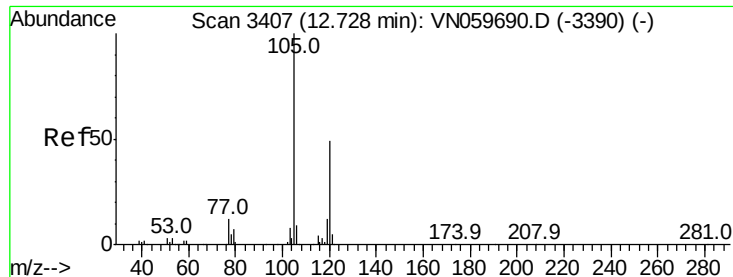
Delta R.T. -0.15 min

Lab File: VN060045.D

Acq: 10 Feb 2020 14:48

Tgt Ion:	75	Resp:	69546
Ion	Ratio	Lower	Upper
75	100		
77	1.0	0.0	0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.276 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060045.D

Acq: 10 Feb 2020 14:48

Instrument :

MSVOA_N

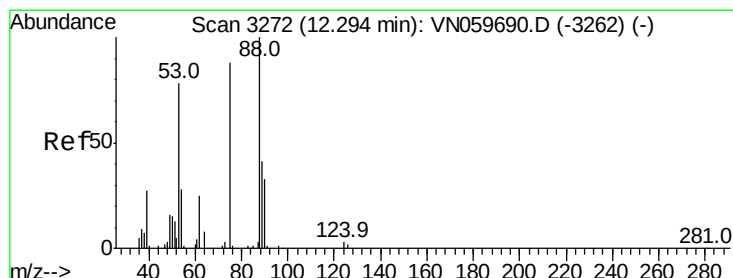
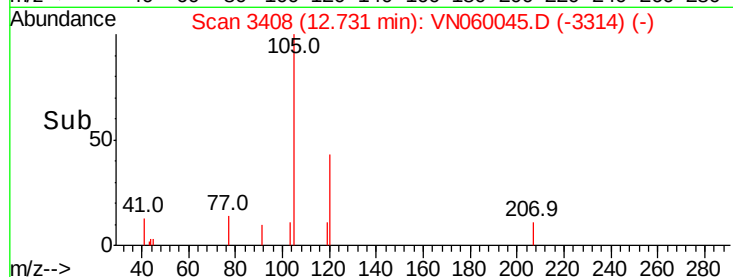
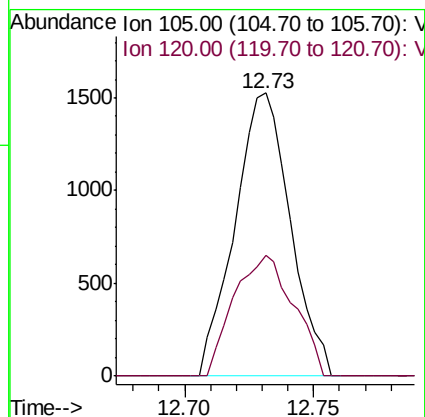
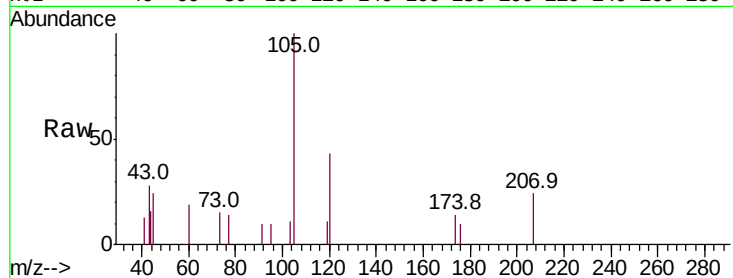
ClientSampleId :

Tot Ion:105 Resp: 2295

Ion Ratio Lower Upper

105 100

120 45.8 24.1 72.4



#81

trans-1,4-Dichloro-2-butene

Concen: 65.889 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060045.D

Acq: 10 Feb 2020 14:48

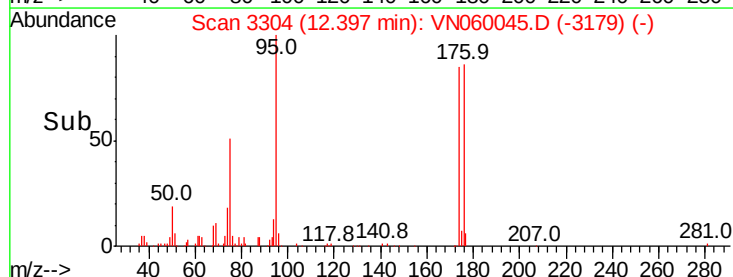
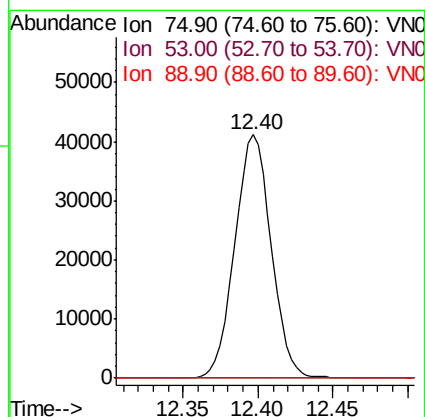
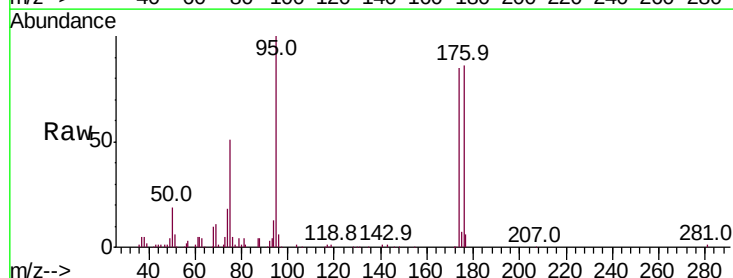
Tgt Ion: 75 Resp: 69546

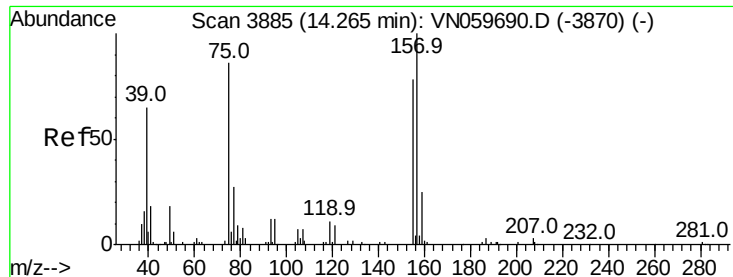
Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

89 0.0 35.4 53.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.28 min Scan# 3889

Delta R.T. 0.01 min

Lab File: VN060045.D

Acq: 10 Feb 2020 14:48

Instrument :

MSVOA_N

ClientSampleId :

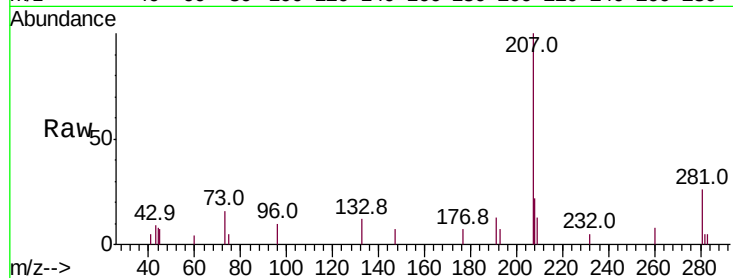
Tot Ion: 75 Resp: 138

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060045.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060045.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060045.D (-3791) (-)

