

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022520\
 Data File : VN060232.D
 Acq On : 25 Feb 2020 14:28
 Operator : JC/MD
 Sample : PB127055ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 25 22:19:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	173949	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	272223	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	257434	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	116320	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	101136	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
35) Dibromofluoromethane	7.57	113	82218	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
50) Toluene-d8	10.08	98	330964	50.23	ug/l	0.00
Spiked Amount			Recovery	=	100.46%	
62) 4-Bromofluorobenzene	12.40	95	120021	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	

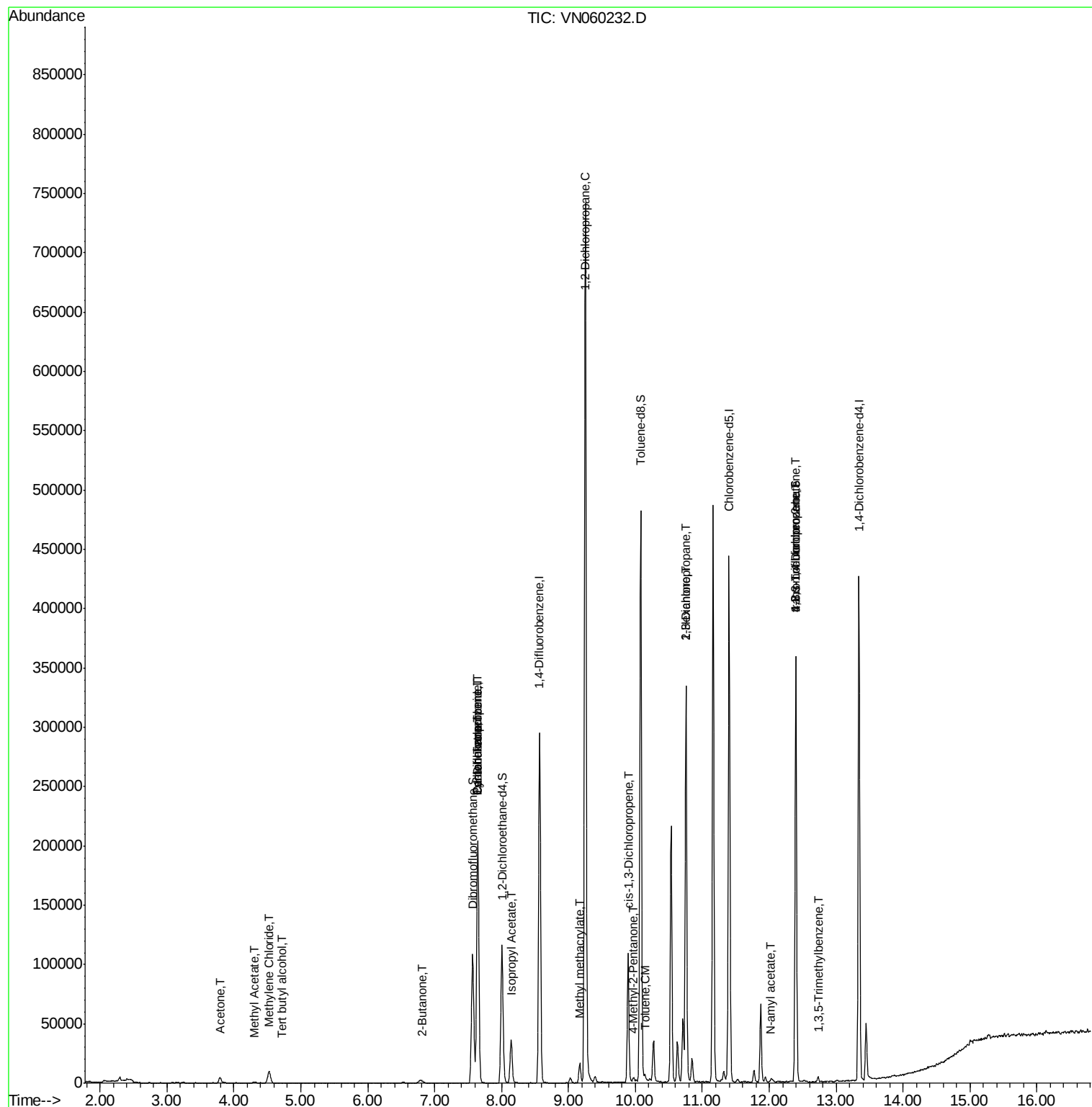
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	107	0.338	ug/l #	72
16) Acetone	3.79	43	8537	9.246	ug/l	98
18) Methyl Acetate	4.31	43	941	0.543	ug/l #	50
20) Methylene Chloride	4.53	84	8109	4.402	ug/l	98
25) 2-Butanone	6.82	43	2508	2.160	ug/l	94
31) Cyclohexane	7.64	56	3516	1.174	ug/l #	14
36) 1,1-Dichloropropene	7.64	75	12635	5.011	ug/l #	47
38) Carbon Tetrachloride	7.64	117	16153	5.899	ug/l #	15
43) Isopropyl Acetate	8.14	43	43753	11.232	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	877	0.474	ug/l #	43
48) Methyl methacrylate	9.16	41	2633	1.507	ug/l #	9
51) 4-Methyl-2-Pentanone	9.98	43	2943	1.305	ug/l	94
52) Toluene	10.14	92	2882	0.601	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	20127	6.365	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	3693	1.196	ug/l #	43
59) 2-Hexanone	10.75	43	48963	28.112	ug/l #	51
74) N-amyl acetate	12.03	43	2500	0.798	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	61158	27.481	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2589	0.358	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	61158	67.288	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.50	75	119	Below Cal	#	1

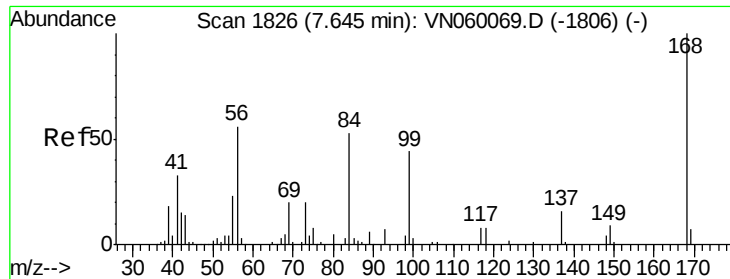
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060232.D

Acq: 25 Feb 2020 14:28

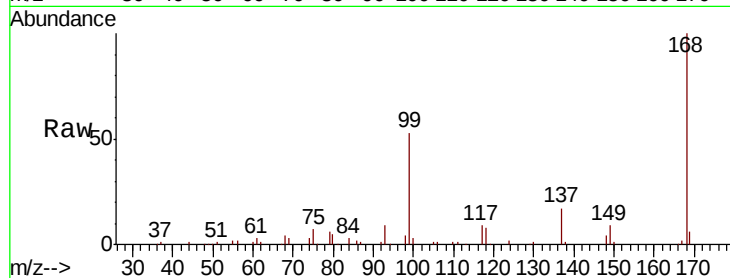
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 173949

Ion Ratio Lower Upper

168 100

99 53.4 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

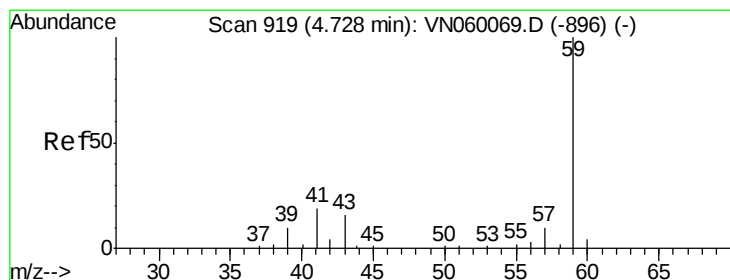
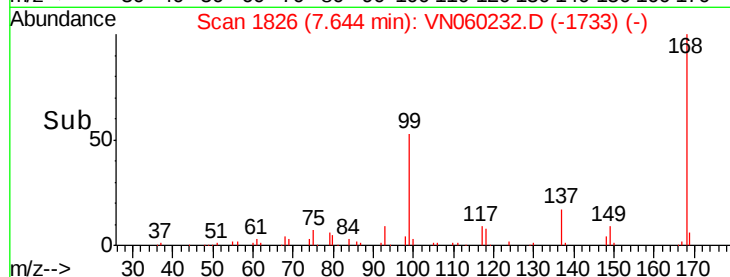
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.338 ug/l

RT: 4.72 min Scan# 917

Delta R.T. -0.01 min

Lab File: VN060232.D

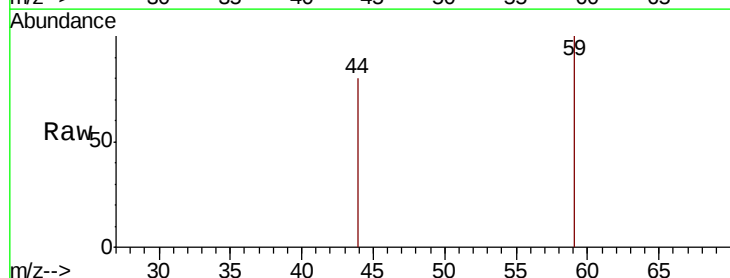
Acq: 25 Feb 2020 14:28

Tgt Ion: 59 Resp: 107

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.72

200

150

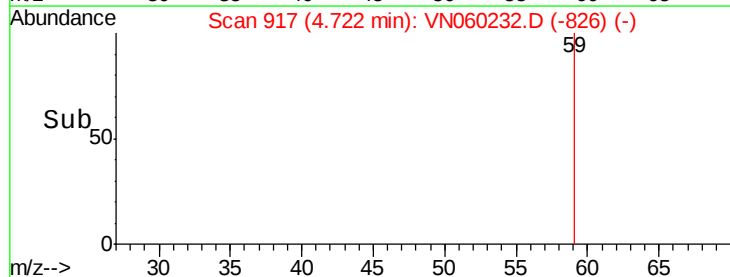
100

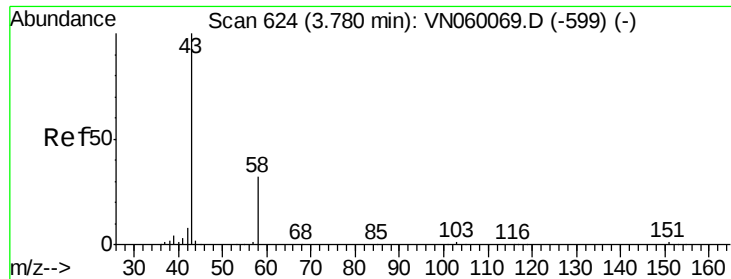
50

0

4.71 4.72 4.73

Time-->





#16

Acetone

Concen: 9.246 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060232.D

Acq: 25 Feb 2020 14:28

Instrument :

MSVOA_N

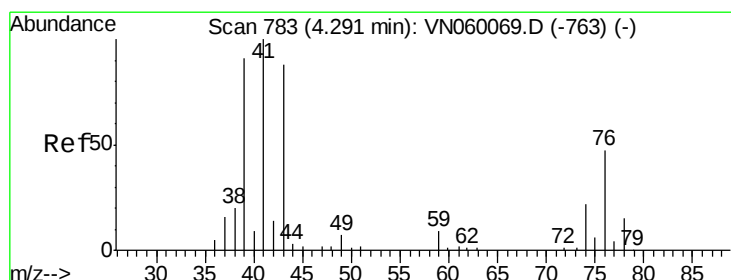
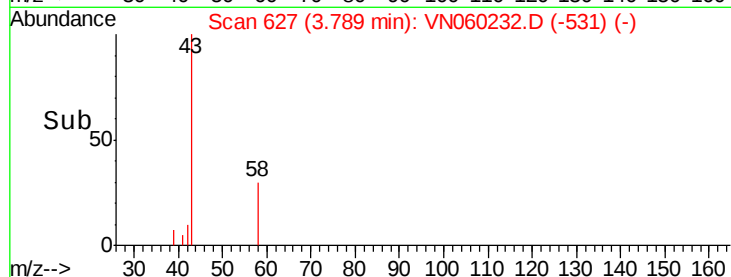
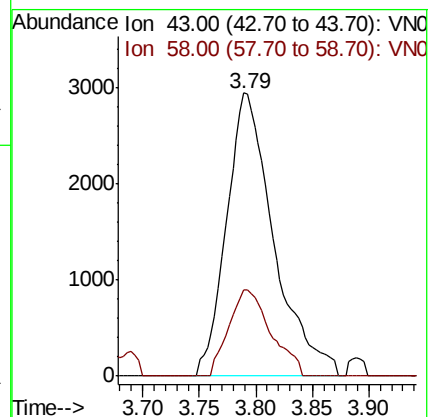
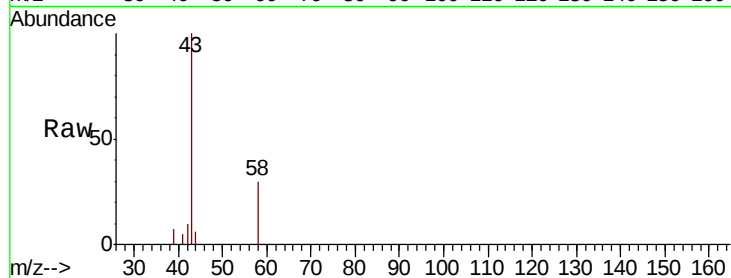
ClientSampleId :

Tot Ion: 43 Resp: 8537

Ion Ratio Lower Upper

43 100

58 30.3 25.2 37.8



#18

Methyl Acetate

Concen: 0.543 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.02 min

Lab File: VN060232.D

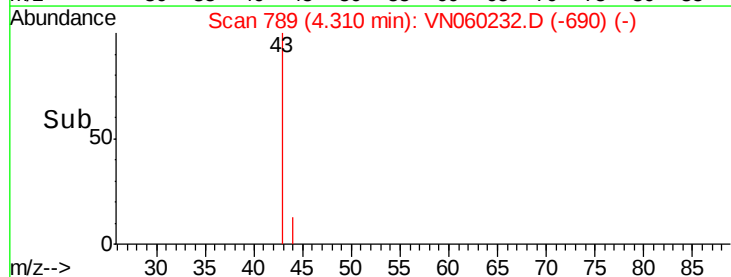
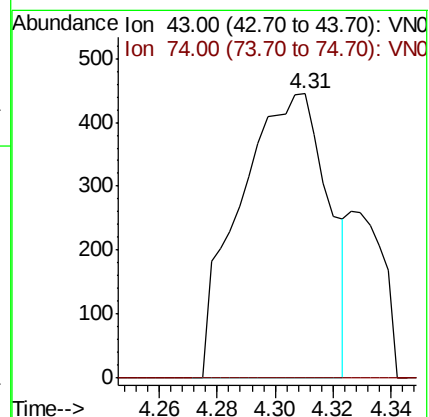
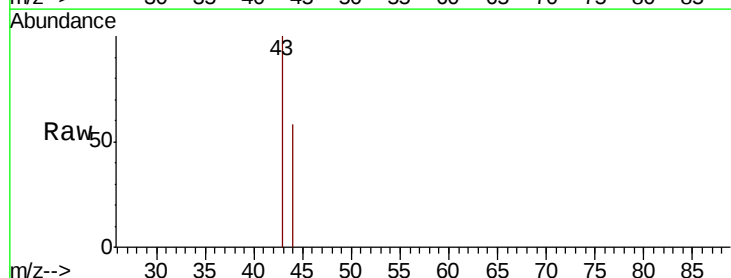
Acq: 25 Feb 2020 14:28

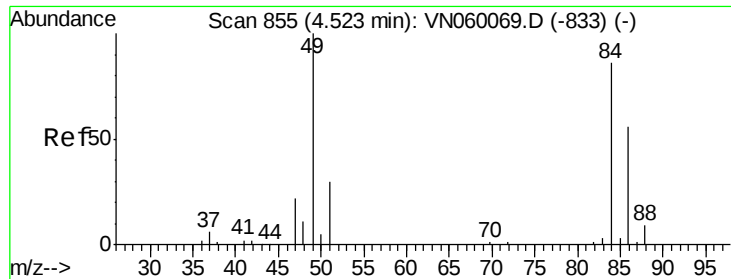
Tgt Ion: 43 Resp: 941

Ion Ratio Lower Upper

43 100

74 0.0 20.3 30.5#

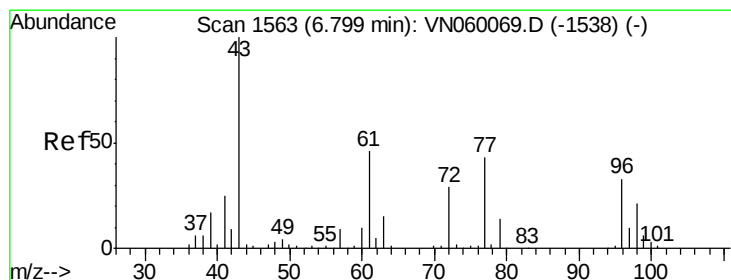
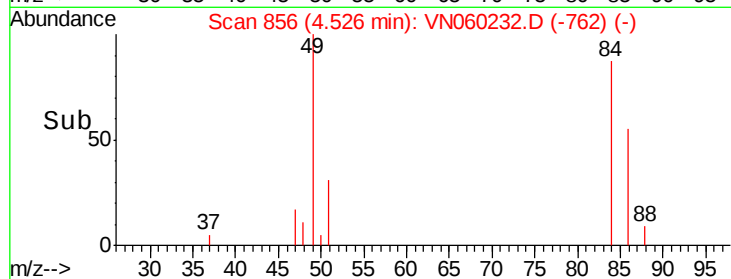
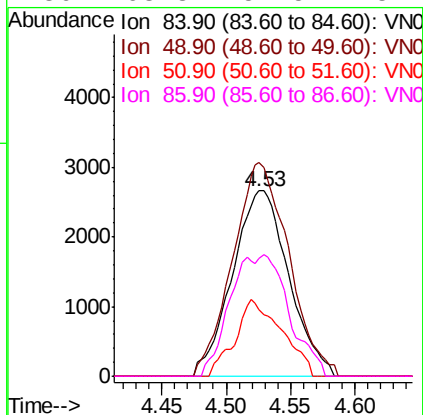
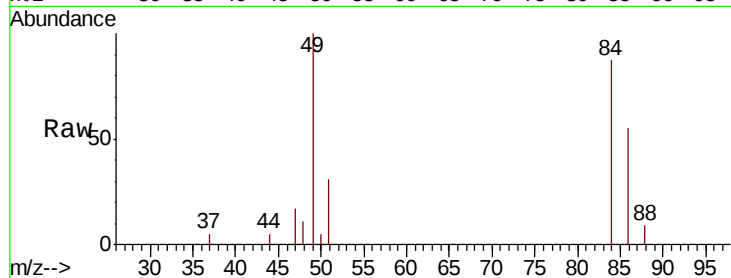




#20
Methvlene Chloride
Concen: 4.402 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060232.D
Acq: 25 Feb 2020 14:28

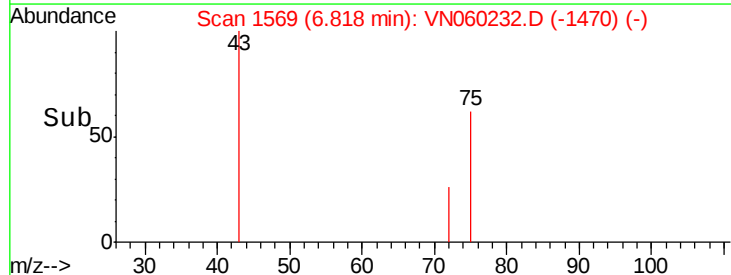
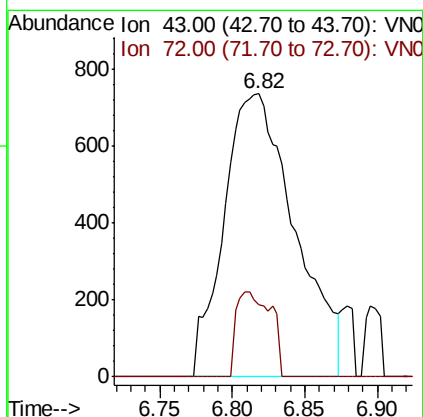
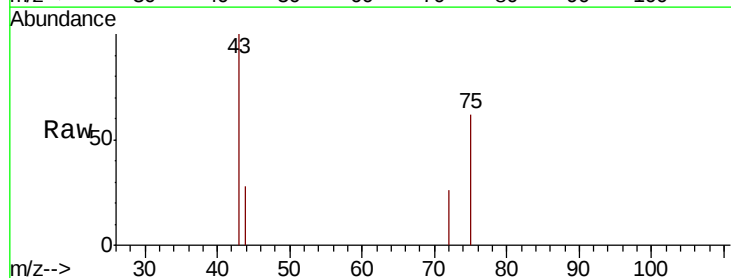
Instrument :
MSVOA_N
ClientSampleId :

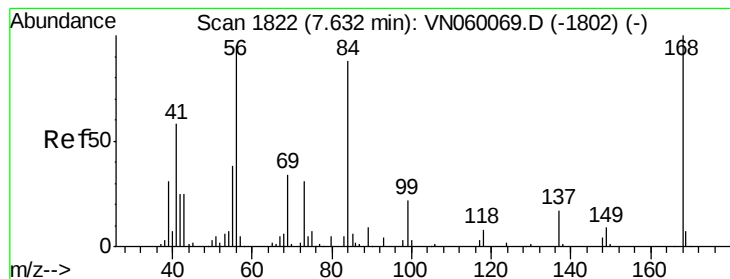
Tot Ion:	84	Resp:	8109
Ion	Ratio	Lower	Upper
84	100		
49	115.3	93.4	140.0
51	35.6	28.4	42.6
86	63.3	52.5	78.7



#25
2-Butanone
Concen: 2.160 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VN060232.D
Acq: 25 Feb 2020 14:28

Tgt Ion:	43	Resp:	2508
Ion	Ratio	Lower	Upper
43	100		
72	25.7	23.3	34.9





#31

Cyclohexane

Concen: 1.174 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060232.D

Acq: 25 Feb 2020 14:28

Instrument :

MSVOA_N

ClientSampleId :

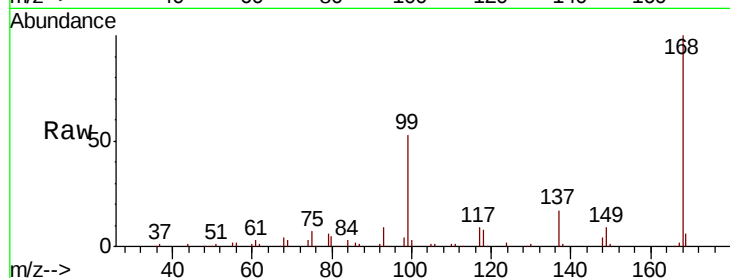
Tot Ion: 56 Resp: 3516

Ion Ratio Lower Upper

56 100

69 164.4 28.3 42.5#

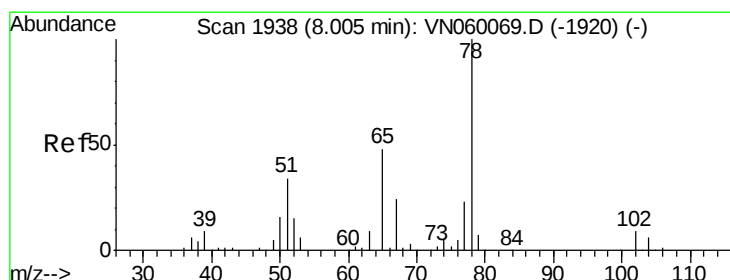
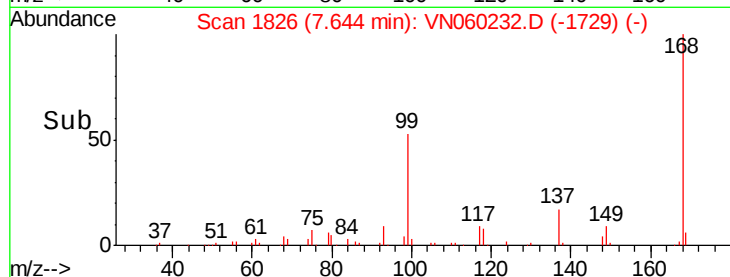
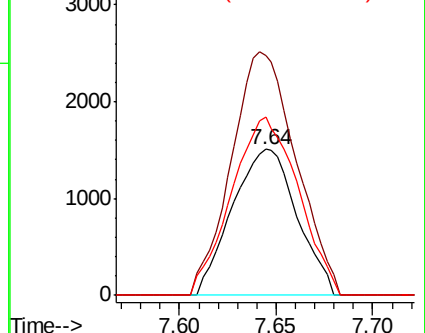
84 122.4 72.6 108.8#



Abundance Ion 56.00 (55.70 to 56.70): VN060069.D (-1802) (-)

Ion 69.00 (68.70 to 69.70): VN060069.D (-1802) (-)

Ion 84.00 (83.70 to 84.70): VN060069.D (-1802) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.781 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060232.D

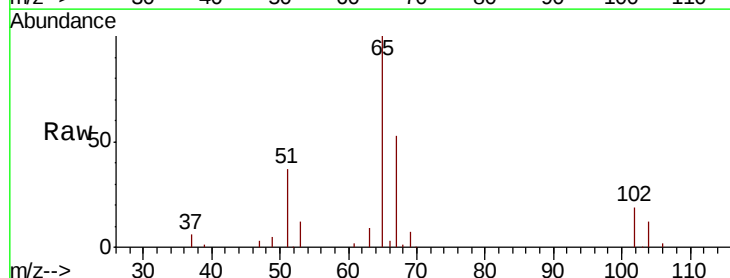
Acq: 25 Feb 2020 14:28

Tgt Ion: 65 Resp: 101136

Ion Ratio Lower Upper

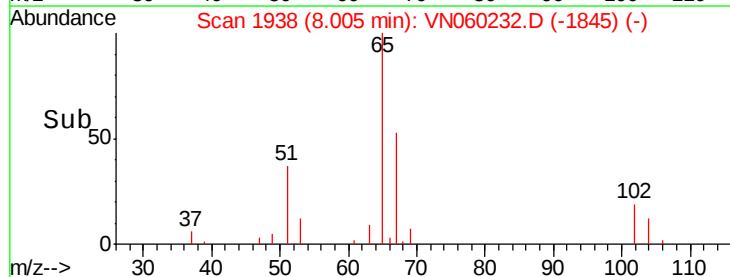
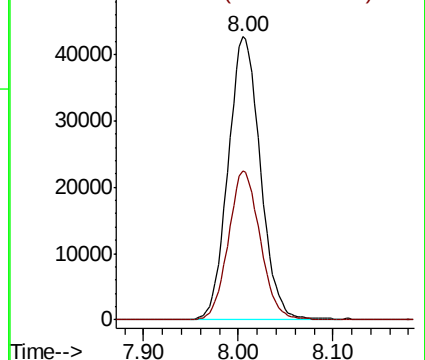
65 100

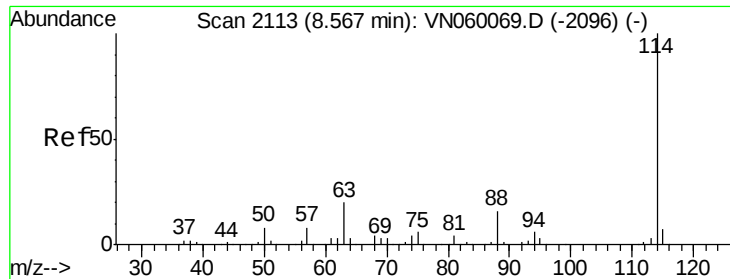
67 52.0 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN060069.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060069.D (-1920) (-)

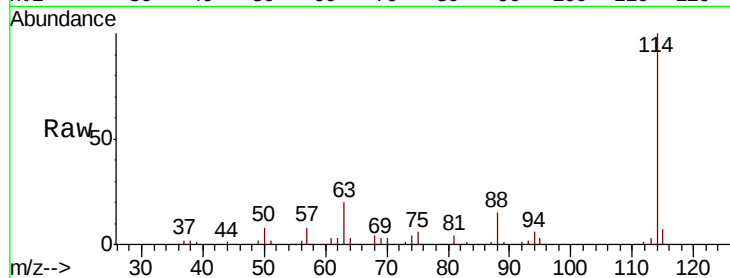




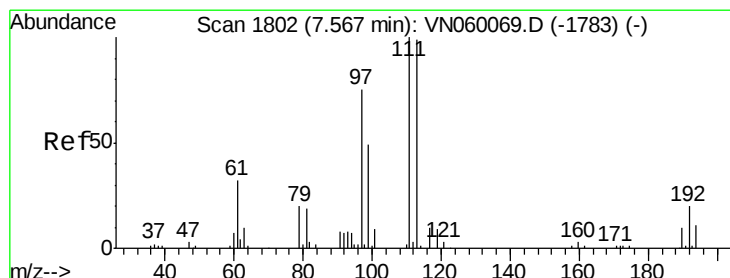
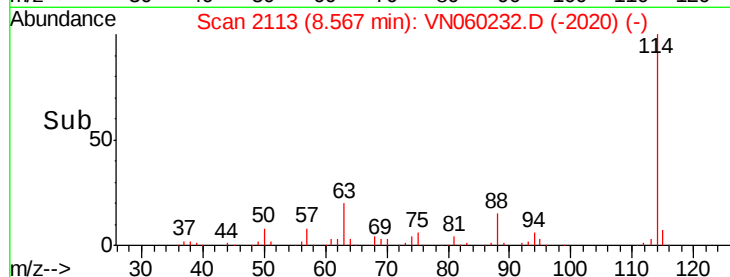
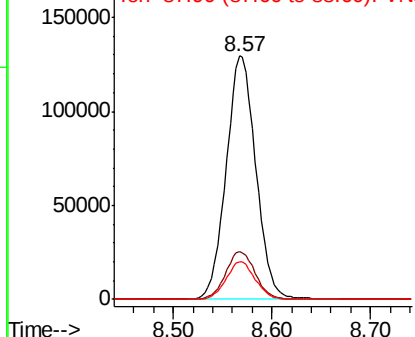
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060232.D
 Acq: 25 Feb 2020 14:28

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 272223
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 15.5 0.0 31.6

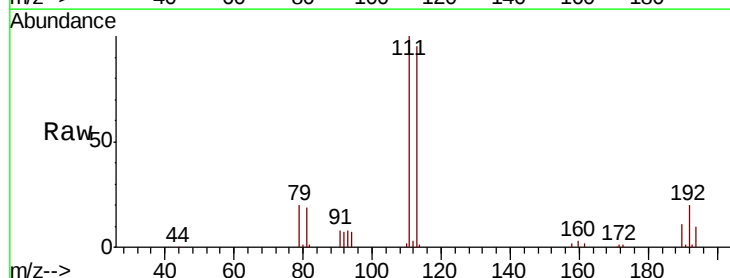


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

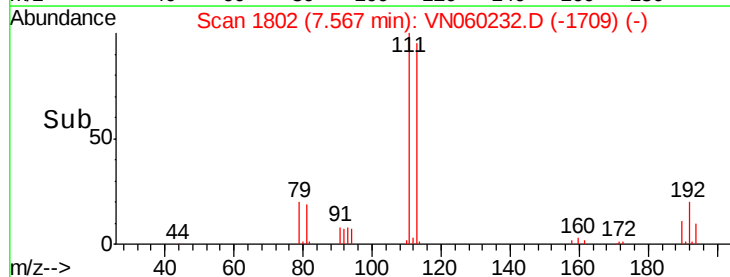
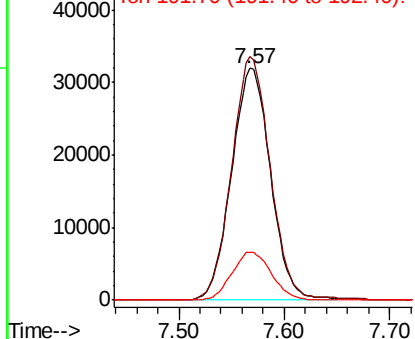


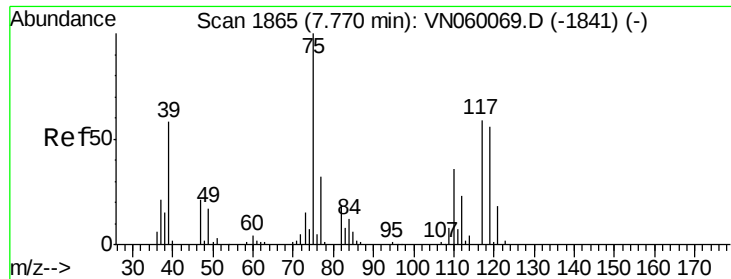
#35
 Dibromofluoromethane
 Concen: 49.134 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060232.D
 Acq: 25 Feb 2020 14:28

Tgt Ion:113 Resp: 82218
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.4 122.2
 192 20.8 16.2 24.2



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

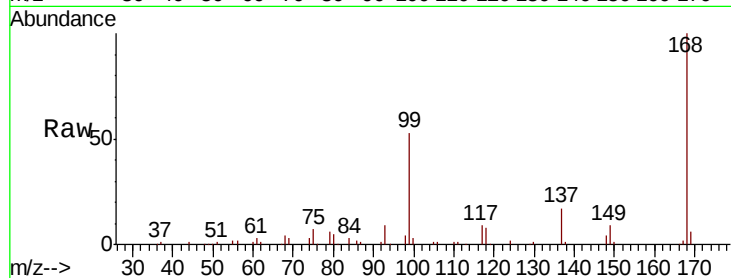




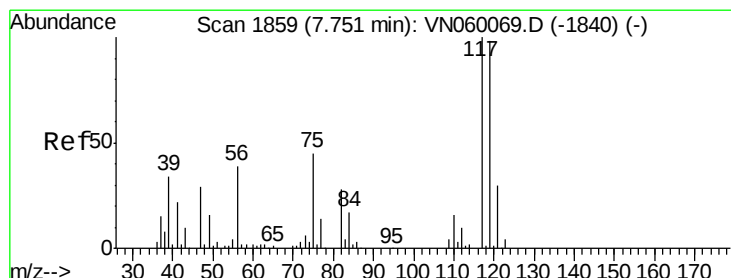
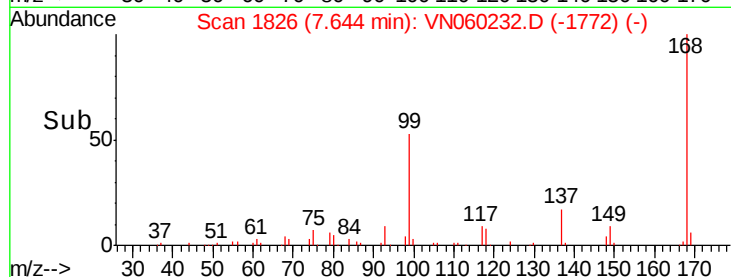
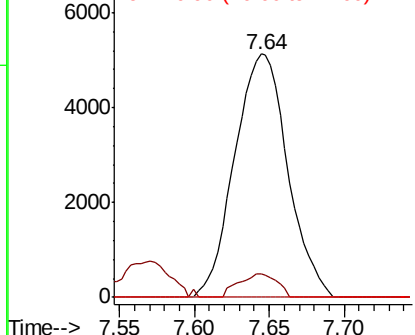
#36
 1,1-Dichloropropene
 Concen: 5.011 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060232.D
 Acq: 25 Feb 2020 14:28

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.0	18.1	54.3#
77	0.0	25.1	37.7#

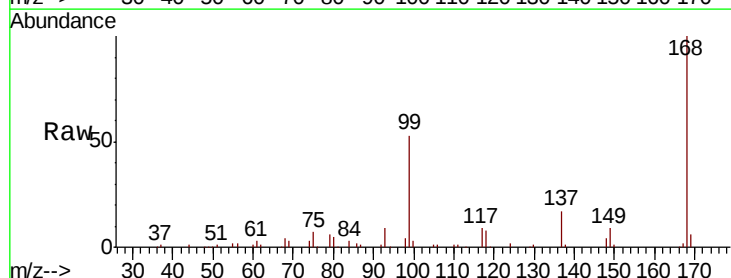


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

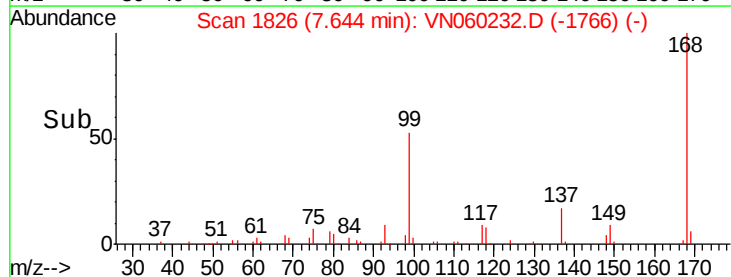
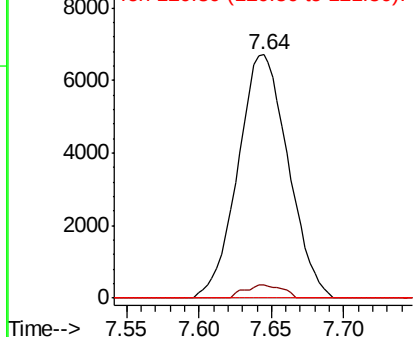


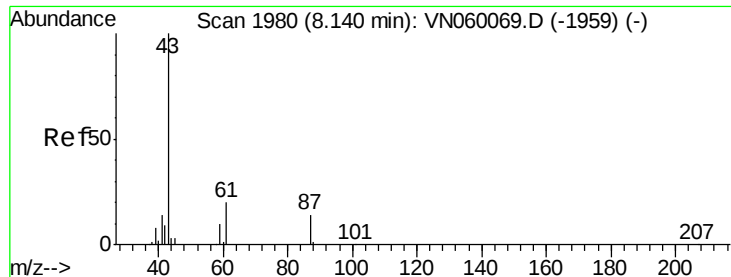
#38
 Carbon Tetrachloride
 Concen: 5.899 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060232.D
 Acq: 25 Feb 2020 14:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	78.2	117.4#
121	0.0	24.2	36.2#



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: 11.232 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060232.D

Acq: 25 Feb 2020 14:28

Instrument :

MSVOA_N

ClientSampled :

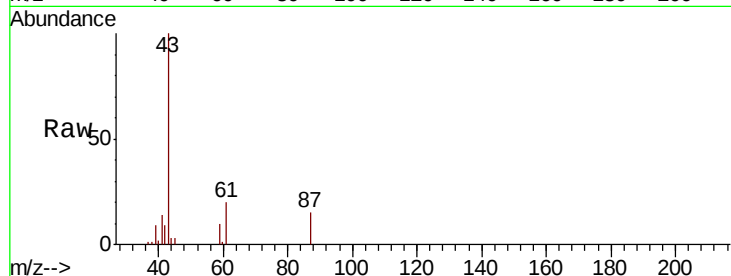
Tot Ion: 43 Resp: 43753

Ion Ratio Lower Upper

43 100

61 19.6 21.8 32.6#

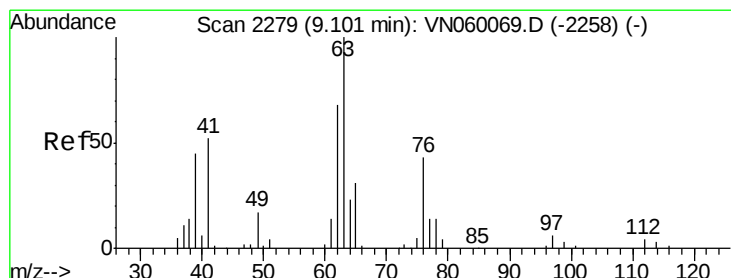
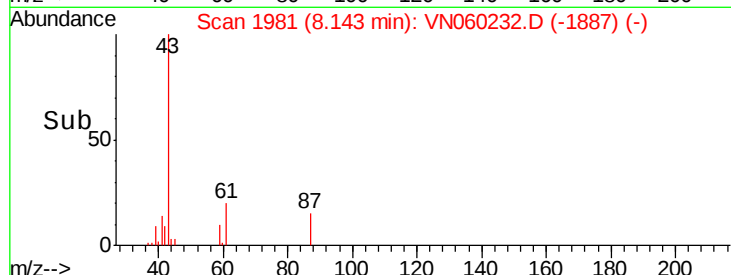
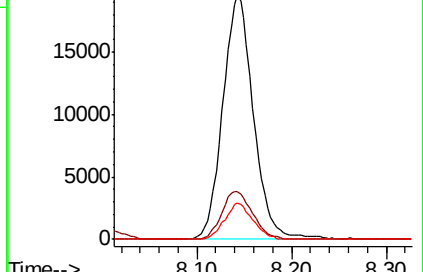
87 13.6 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060069.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060069.D (-1959) (-)



#45

1,2-Dichloropropane

Concen: 0.474 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060232.D

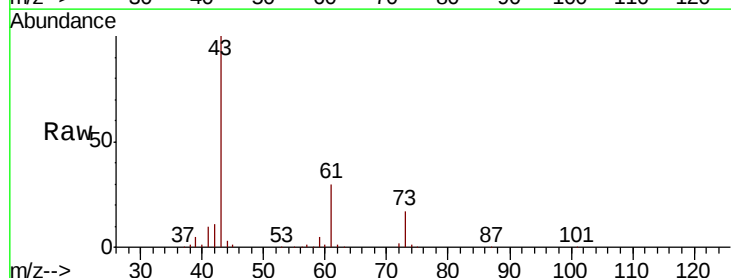
Acq: 25 Feb 2020 14:28

Tgt Ion: 63 Resp: 877

Ion Ratio Lower Upper

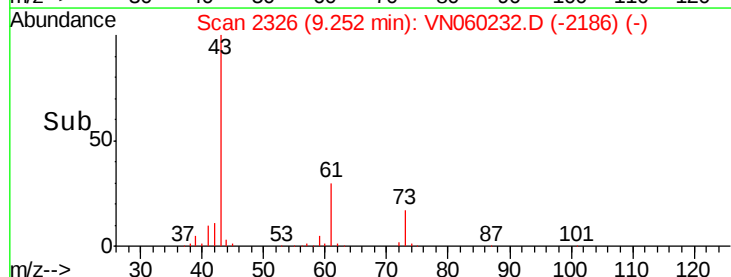
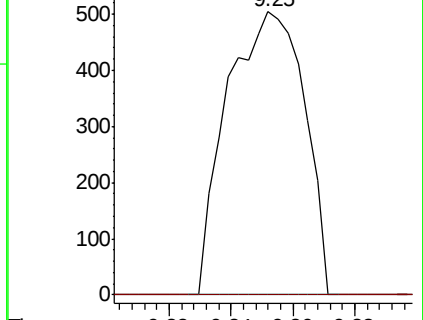
63 100

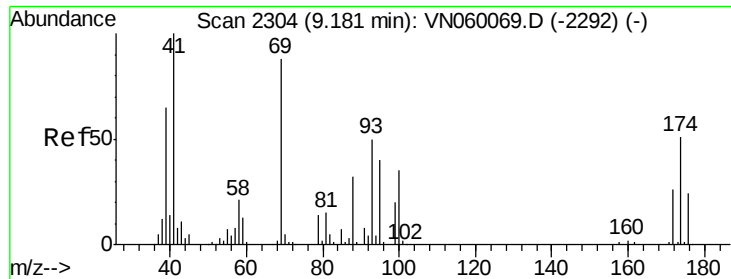
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN060069.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060069.D (-2258) (-)

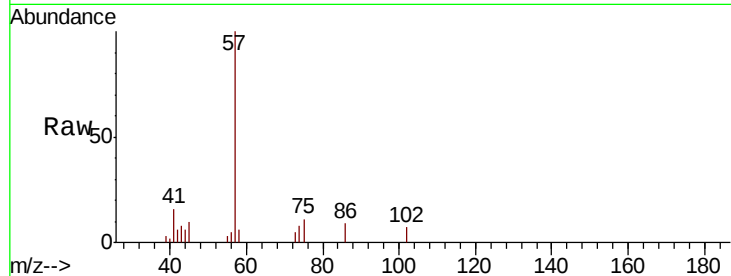




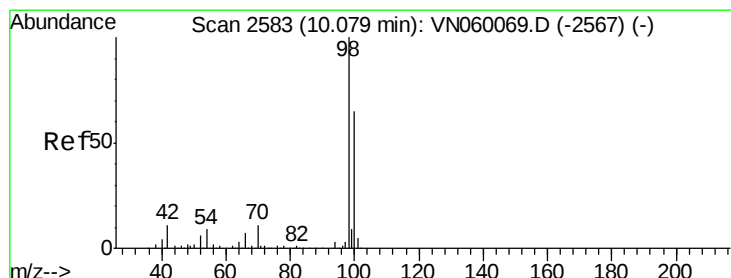
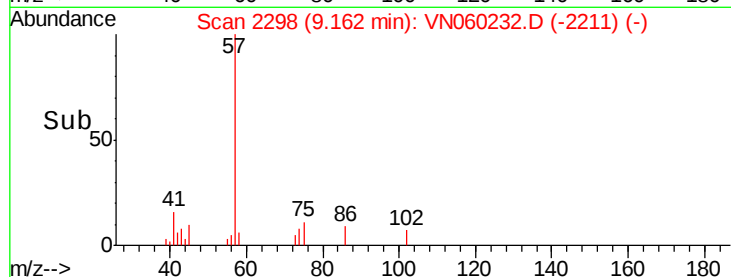
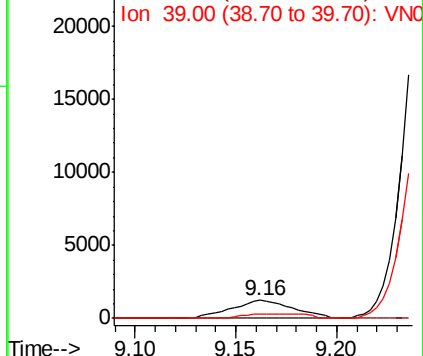
#48
Methyl methacrylate
Concen: 1.507 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060232.D
Acq: 25 Feb 2020 14:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2633
Ion Ratio Lower Upper
41 100
69 0.0 72.0 108.0#
39 0.0 54.1 81.1#

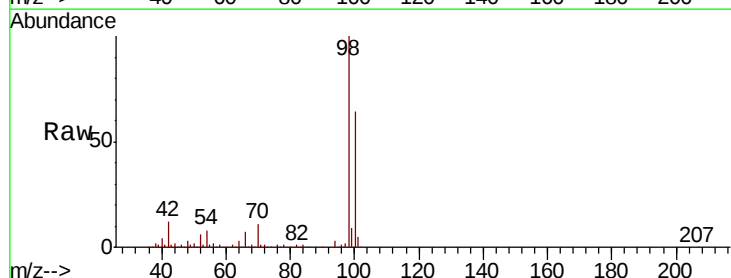


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

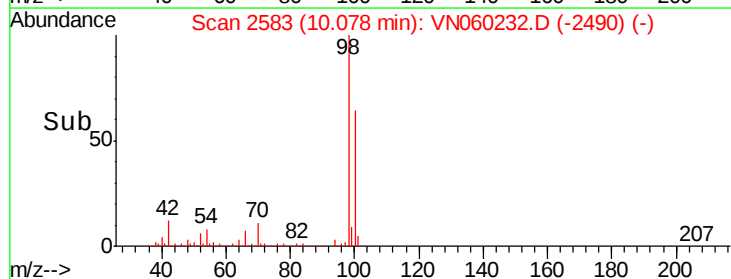
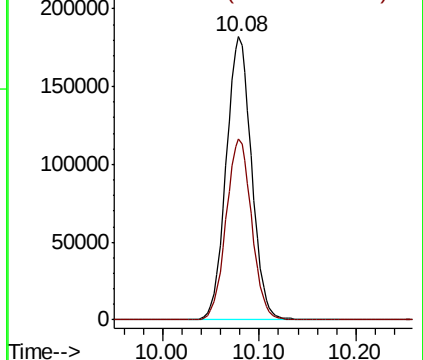


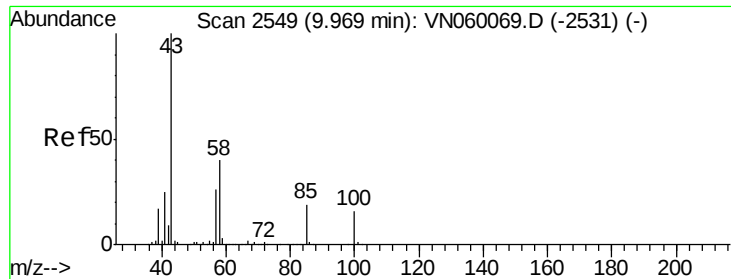
#50
Toluene-d8
Concen: 50.225 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060232.D
Acq: 25 Feb 2020 14:28

Tgt Ion: 98 Resp: 330964
Ion Ratio Lower Upper
98 100
100 64.4 51.7 77.5



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





#51

4-Methyl-2-Pentanone

Concen: 1.305 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.01 min

Lab File: VN060232.D

Acq: 25 Feb 2020 14:28

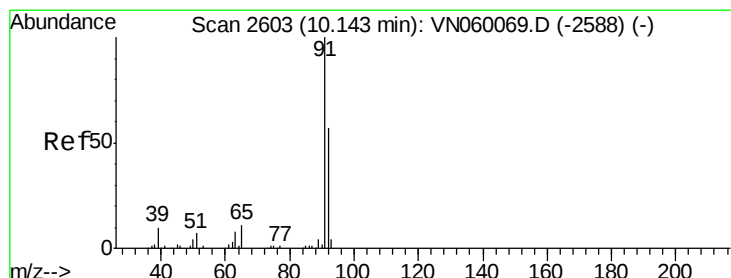
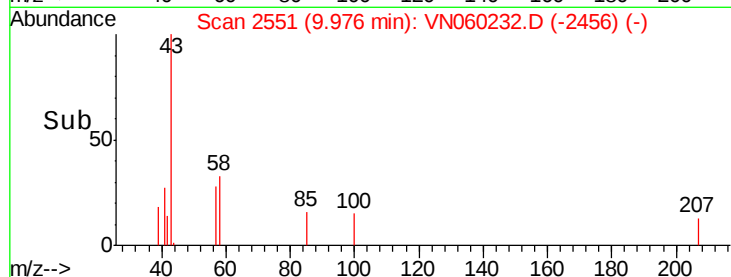
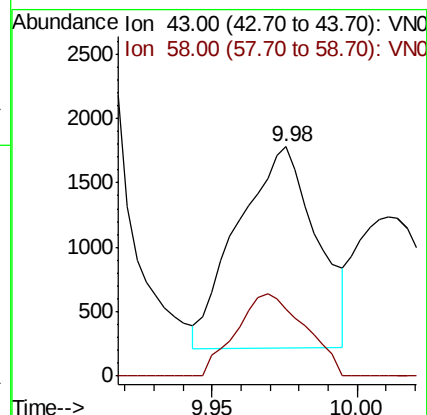
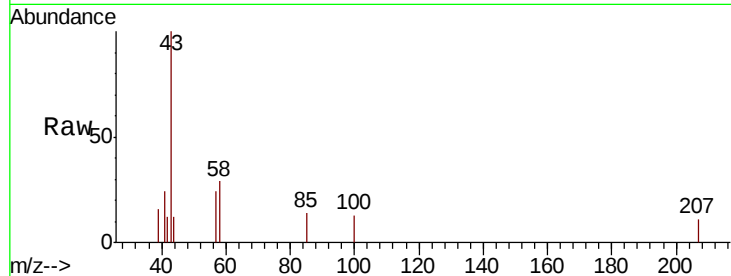
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2943

Ion Ratio Lower Upper

43 100

58 35.9 31.8 47.8



#52

Toluene

Concen: 0.601 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060232.D

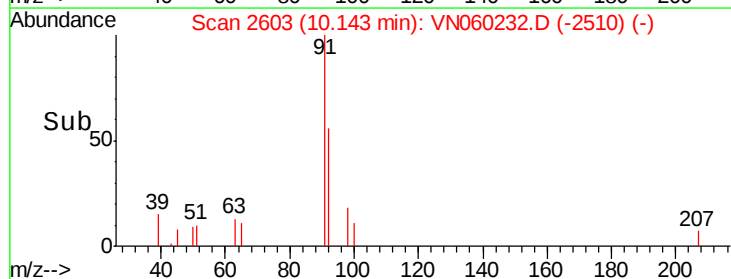
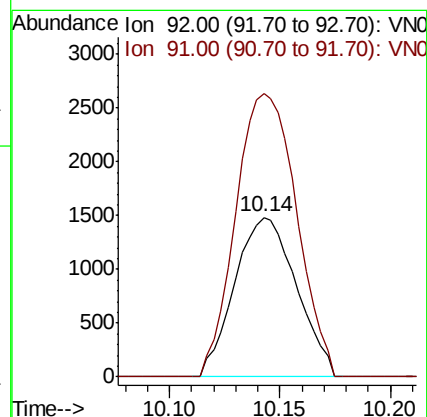
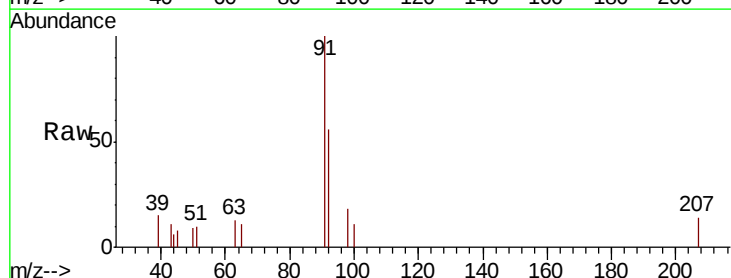
Acq: 25 Feb 2020 14:28

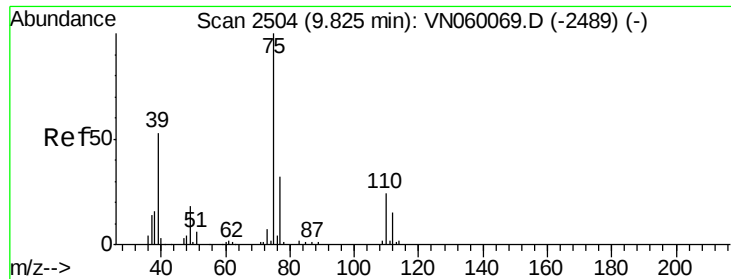
Tgt Ion: 92 Resp: 2882

Ion Ratio Lower Upper

92 100

91 175.2 140.9 211.3



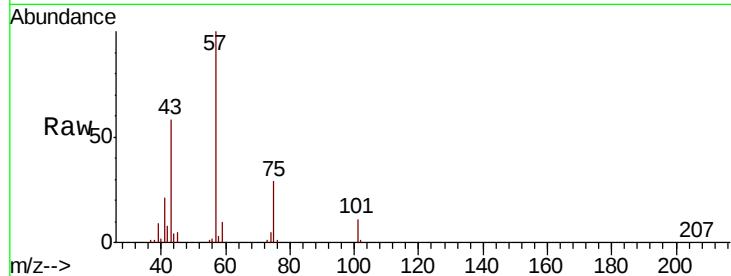


#54

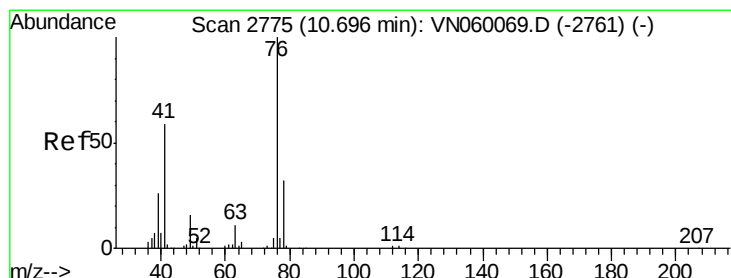
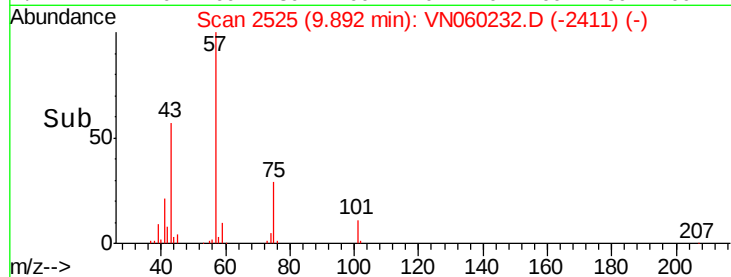
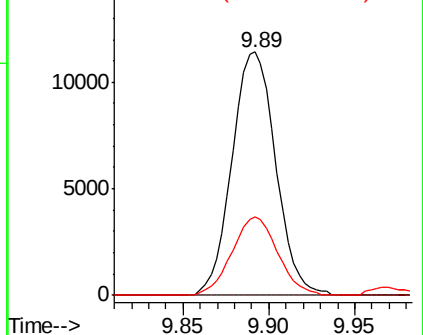
cis-1,3-Dichloropropene
 Concen: 6.365 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN060232.D
 Acq: 25 Feb 2020 14:28

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.6	38.4#
39	32.4	42.2	63.4#



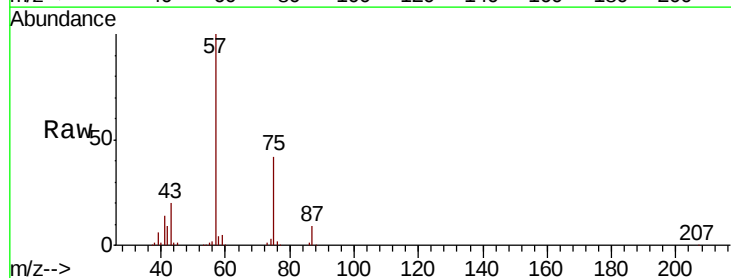
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



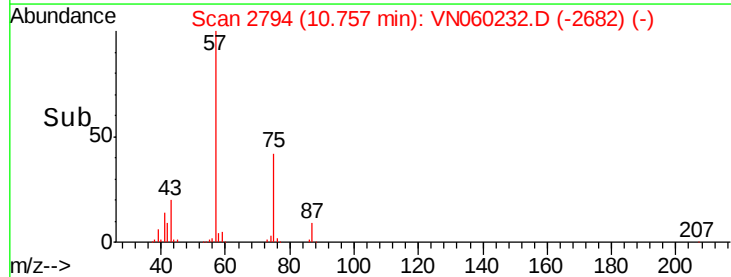
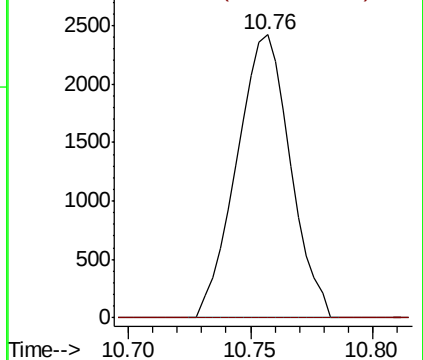
#57

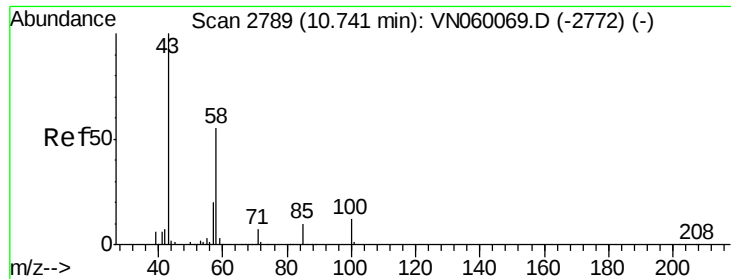
1,3-Dichloropropane
 Concen: 1.196 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN060232.D
 Acq: 25 Feb 2020 14:28

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.7	38.5#



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

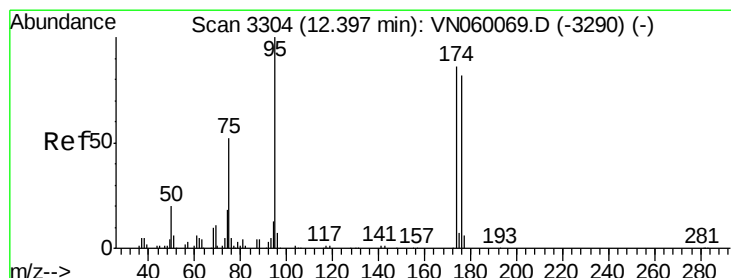
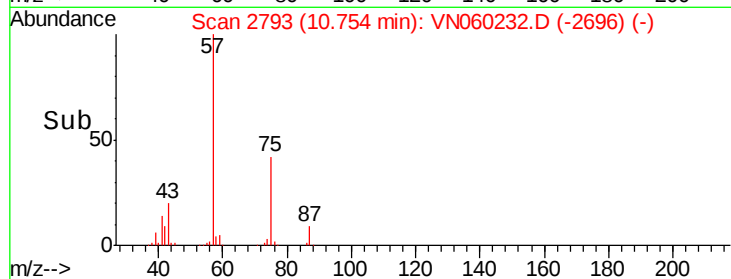
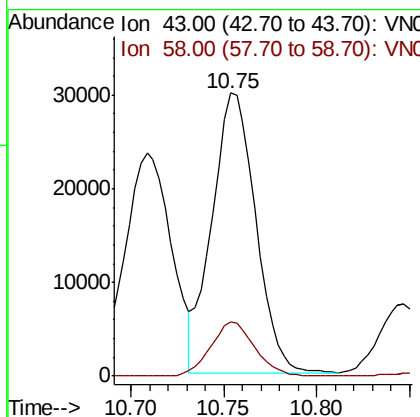
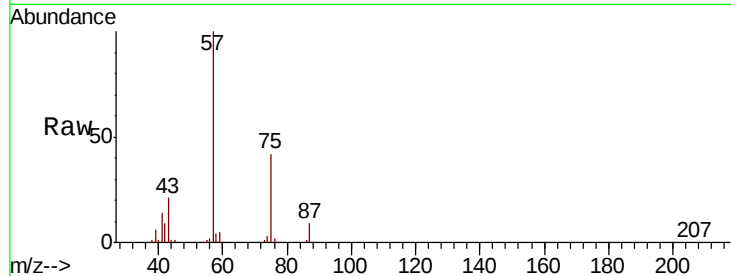




#59
2-Hexanone
Concen: 28.112 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060232.D
Acq: 25 Feb 2020 14:28

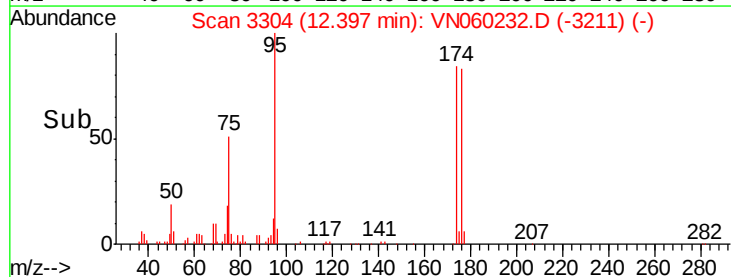
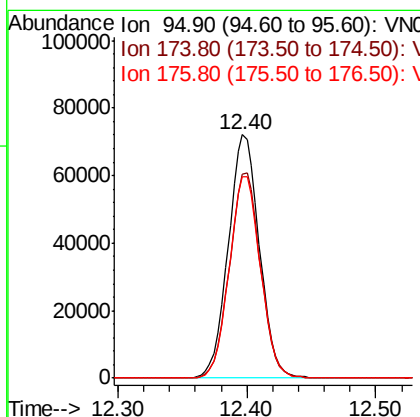
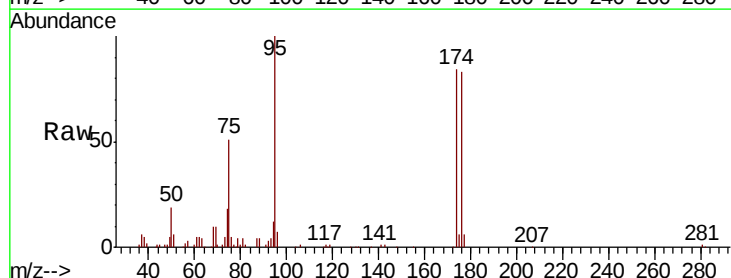
Instrument :
MSVOA_N
ClientSampled :

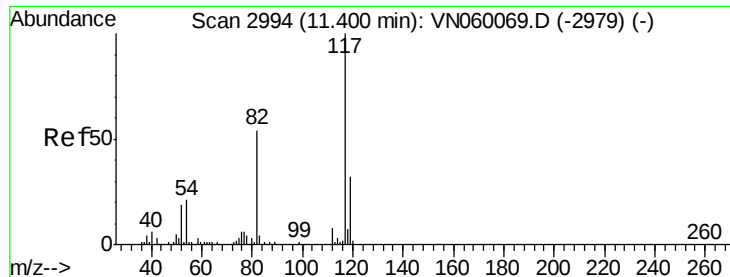
Tot Ion: 43 Resp: 48963
Ion Ratio Lower Upper
43 100
58 19.5 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 49.567 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060232.D
Acq: 25 Feb 2020 14:28

Tgt Ion: 95 Resp: 120021
Ion Ratio Lower Upper
95 100
174 84.5 0.0 169.8
176 83.4 0.0 164.8

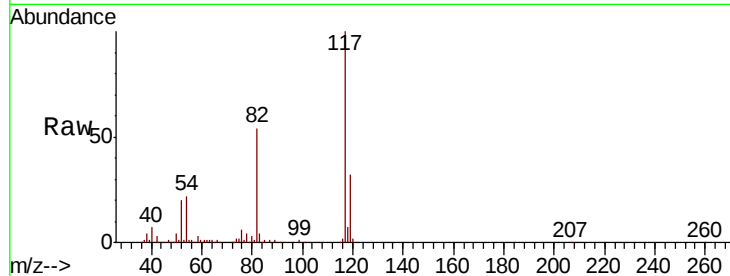




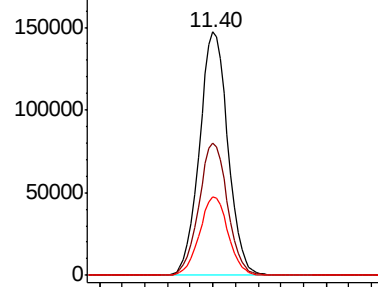
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060232.D
Acq: 25 Feb 2020 14:28

Instrument :
MSVOA_N
ClientSampled :

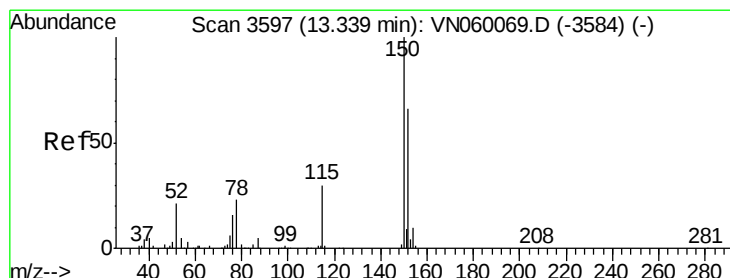
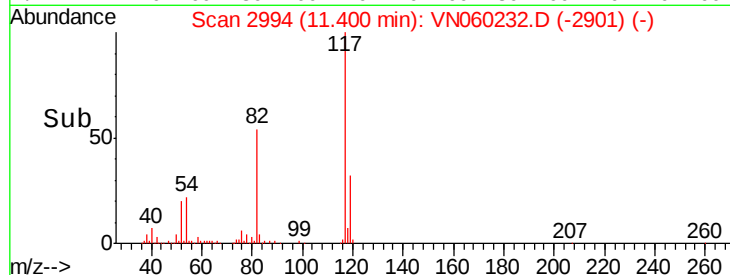
Tot Ion:117 Resp: 257434
Ion Ratio Lower Upper
117 100
82 54.5 43.4 65.0
119 32.2 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V
200000 Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

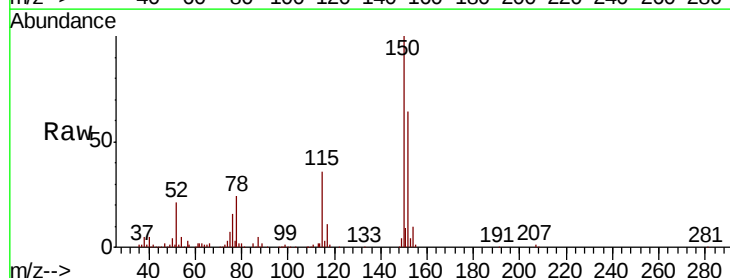


Time--> 11.30 11.40 11.50

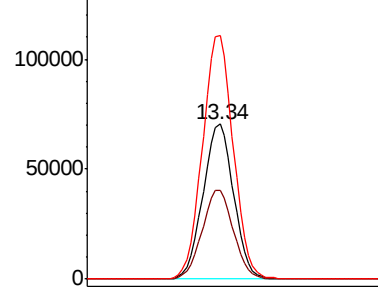


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN060232.D
Acq: 25 Feb 2020 14:28

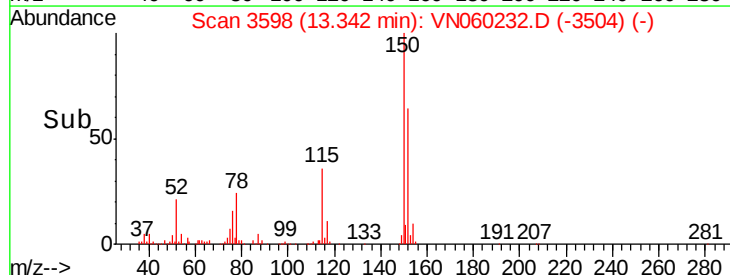
Tgt Ion:152 Resp: 116320
Ion Ratio Lower Upper
152 100
115 58.0 28.9 86.8
150 157.7 0.0 342.4

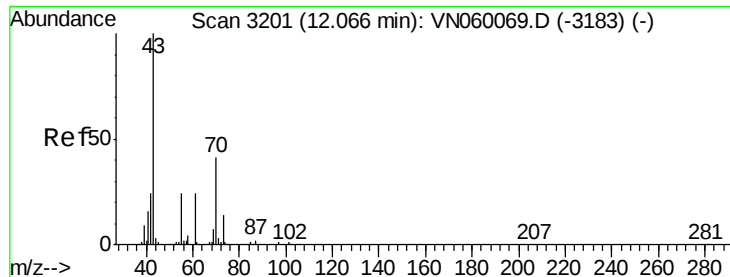


Abundance Ion 151.90 (151.60 to 152.60): V
150000 Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



Time--> 13.30 13.40





#74

N-amvl acetate

Concen: 0.798 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060232.D

Acq: 25 Feb 2020 14:28

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2500

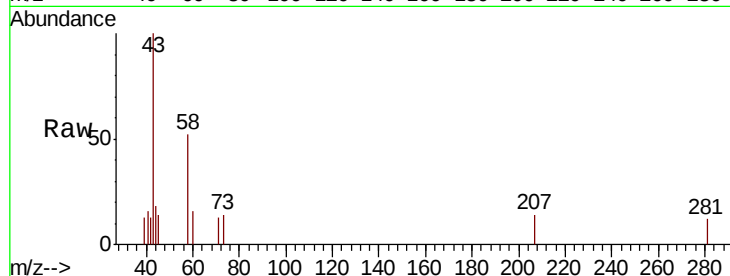
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#

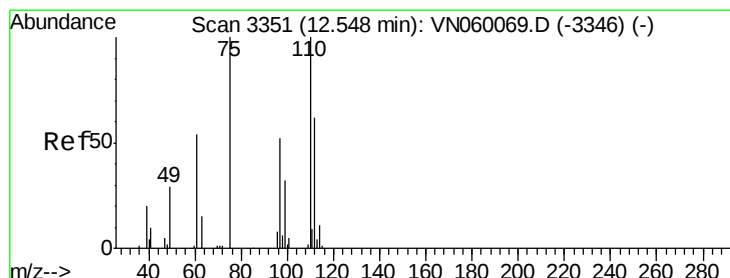
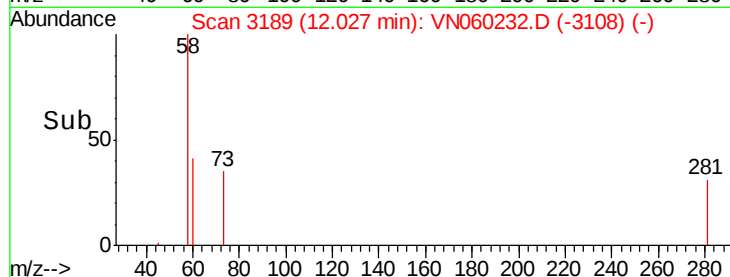
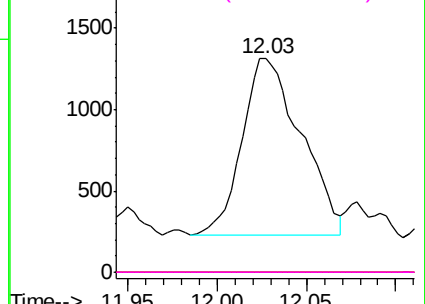


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 27.481 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060232.D

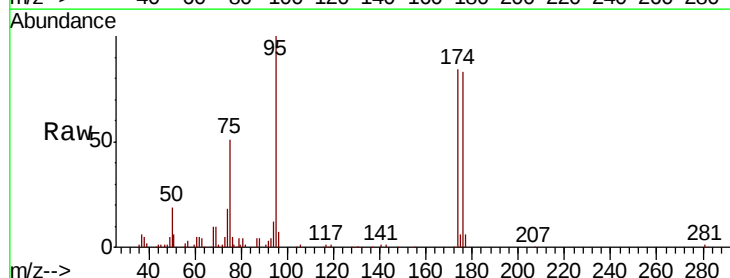
Acq: 25 Feb 2020 14:28

Tgt Ion: 75 Resp: 61158

Ion Ratio Lower Upper

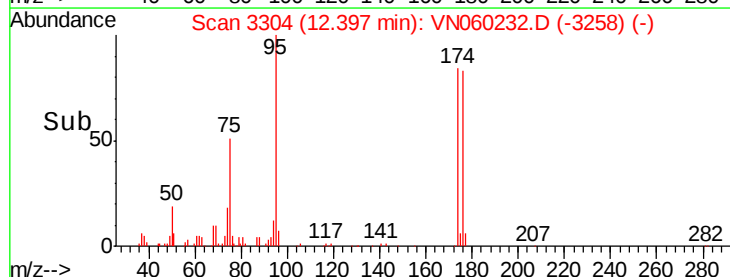
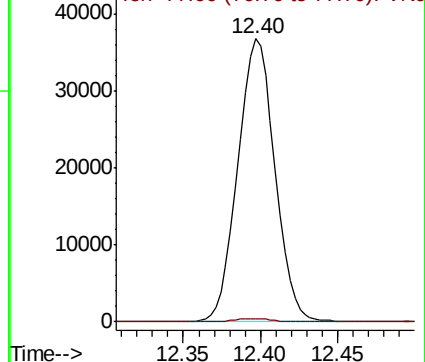
75 100

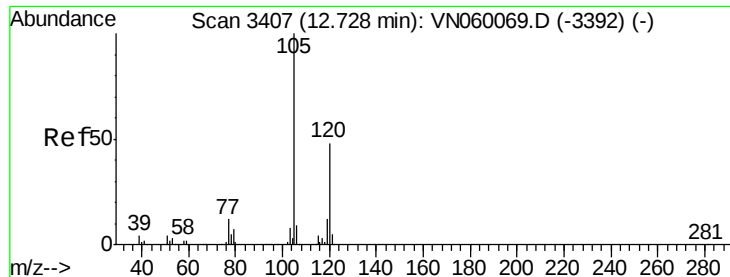
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.358 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060232.D

Acq: 25 Feb 2020 14:28

Instrument :

MSVOA_N

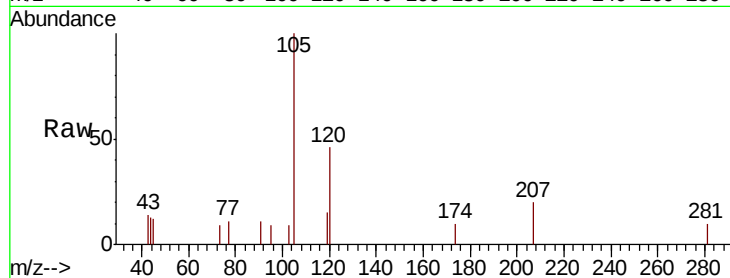
ClientSampleId :

Tot Ion:105 Resp: 2589

Ion Ratio Lower Upper

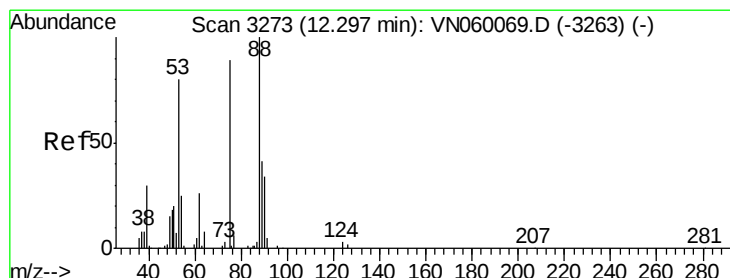
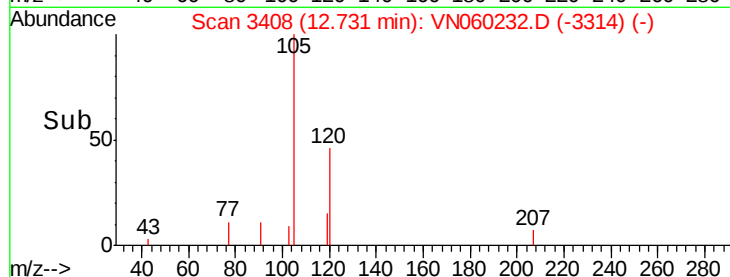
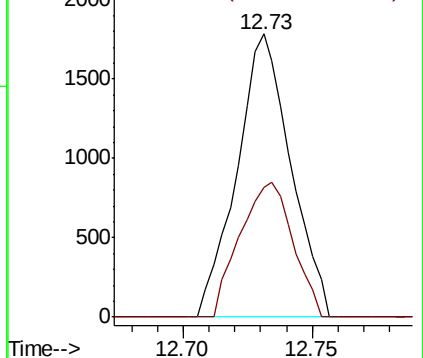
105 100

120 47.0 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 67.288 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060232.D

Acq: 25 Feb 2020 14:28

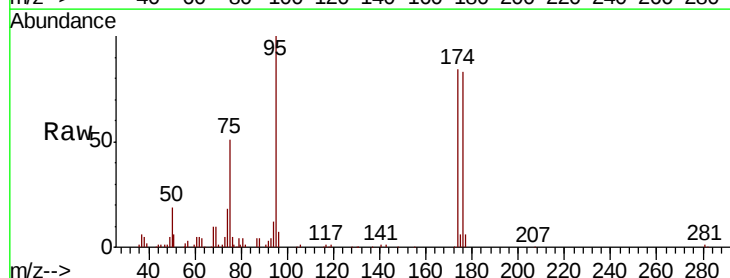
Tgt Ion: 75 Resp: 61158

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

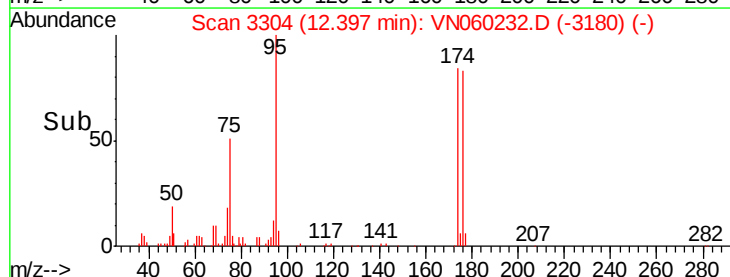
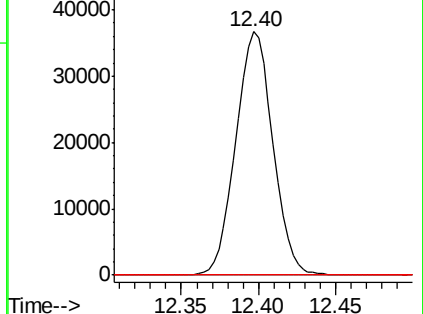
89 0.0 37.0 55.4#

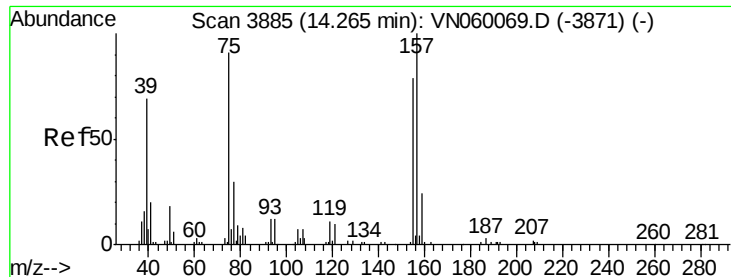


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.50 min Scan# 3959

Delta R.T. 0.24 min

Lab File: VN060232.D

Acq: 25 Feb 2020 14:28

Instrument :

MSVOA_N

ClientSampleId :

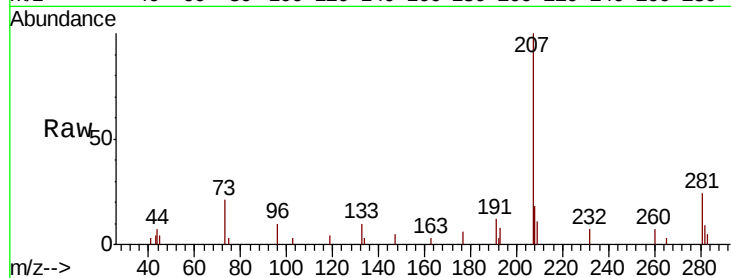
Tot Ion: 75 Resp: 119

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN060232.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060232.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060232.D (-3791) (-)

