

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041420\
 Data File : VN060943.D
 Acq On : 14 Apr 2020 18:53
 Operator : JC/MD
 Sample : L2244-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-25-24-COMP

Quant Time: Apr 15 07:49:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	130387	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	222093	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	207056	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	92890	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	87753	49.03	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.06%	
35) Dibromofluoromethane	7.56	113	65979	49.13	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.26%	
50) Toluene-d8	10.08	98	274435	50.03	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.06%	
62) 4-Bromofluorobenzene	12.40	95	103122	51.30	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.60%	

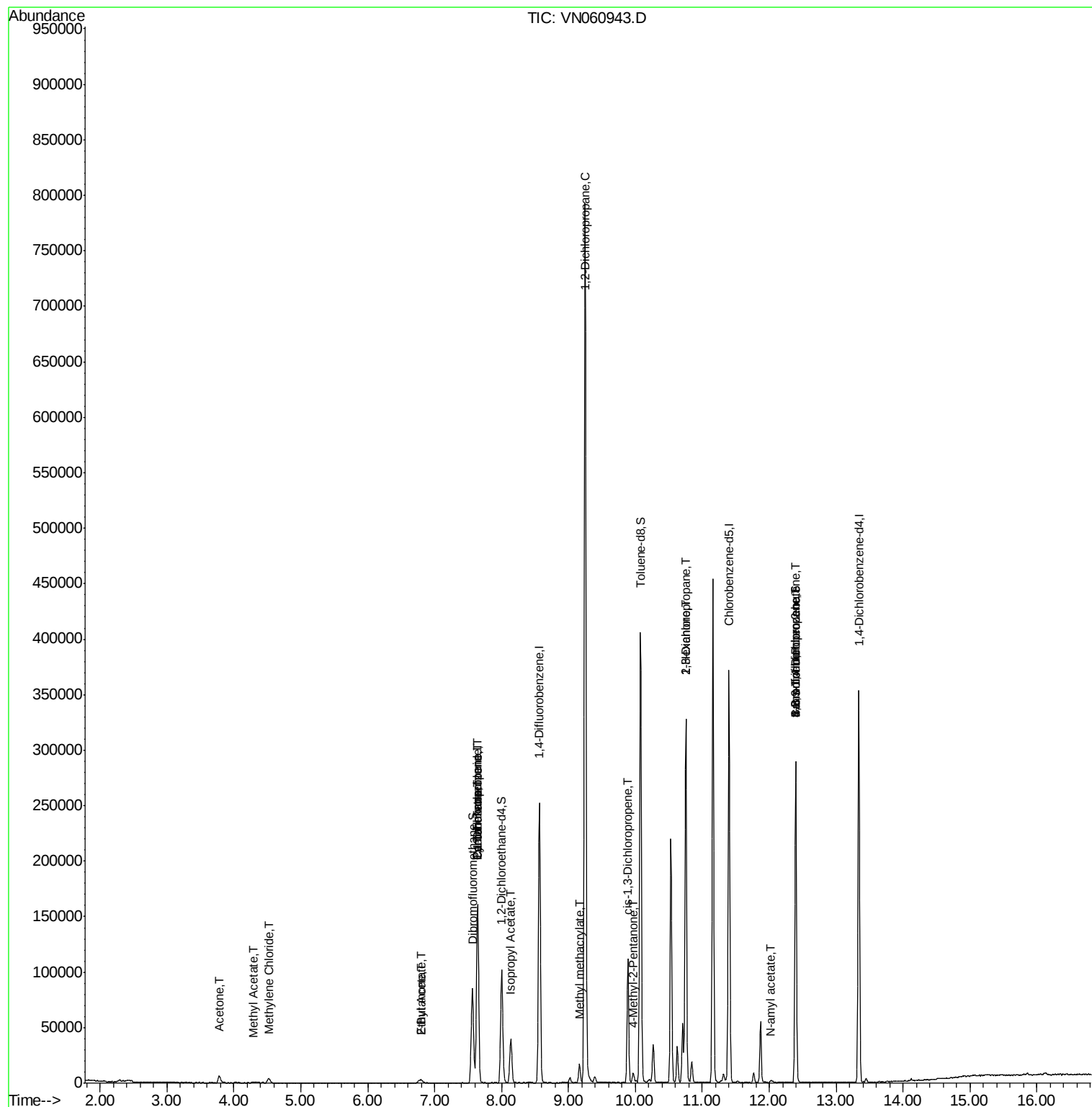
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	11397	17.976	ug/l	92
18) Methyl Acetate	4.29	43	1586	0.889	ug/l #	54
20) Methylene Chloride	4.52	84	3220	2.065	ug/l	96
25) 2-Butanone	6.80	43	3606	3.515	ug/l	98
31) Cyclohexane	7.64	56	2905	1.008	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	10825	5.034	ug/l #	49
37) Ethyl Acetate	6.80	43	3606	1.552	ug/l #	70
38) Carbon Tetrachloride	7.64	117	12777	6.629	ug/l #	17
43) Isopropyl Acetate	8.14	43	48517	12.660	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	851	0.497	ug/l #	43
48) Methyl methacrylate	9.16	41	2336	1.369	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5989	2.746	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	20110	7.415	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3057	1.168	ug/l #	42
59) 2-Hexanone	10.75	43	48570	30.919	ug/l #	51
71) Bromoform	12.39	173	226	1.857	ug/l #	1
74) N-amyl acetate	12.02	43	2602	0.808	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	52304	26.095	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	52304	67.020	ug/l #	13

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

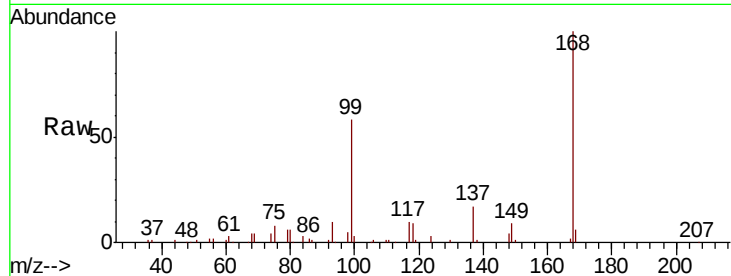
TP-25-24-COMP

Tot Ion:168 Resp: 130387

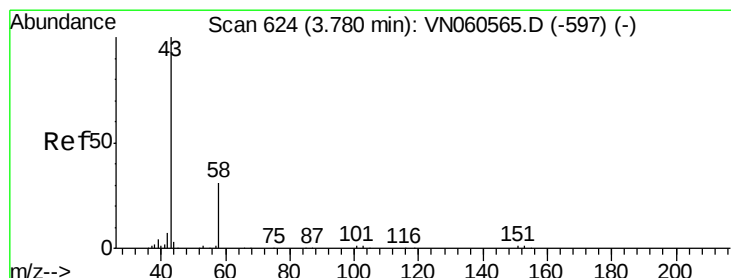
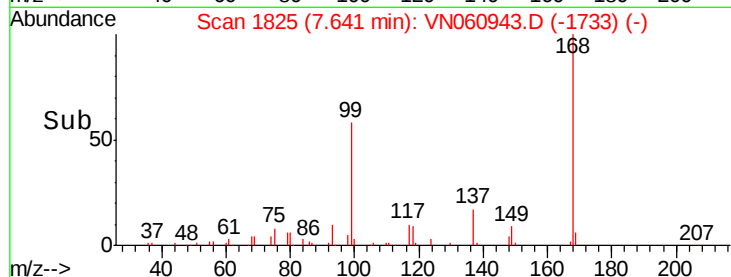
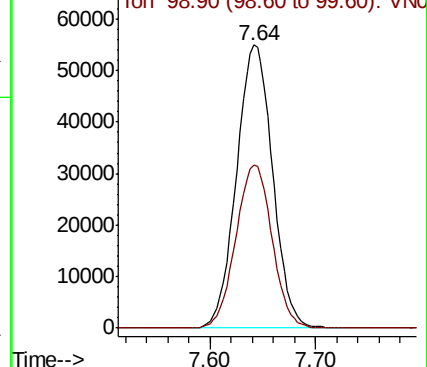
Ion Ratio Lower Upper

168 100

99 57.6 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060565.D (-1807) (-)



#16

Acetone

Concen: 17.976 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060943.D

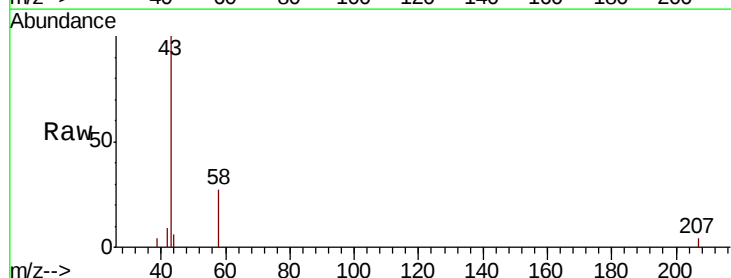
Acq: 14 Apr 2020 18:53

Tgt Ion: 43 Resp: 11397

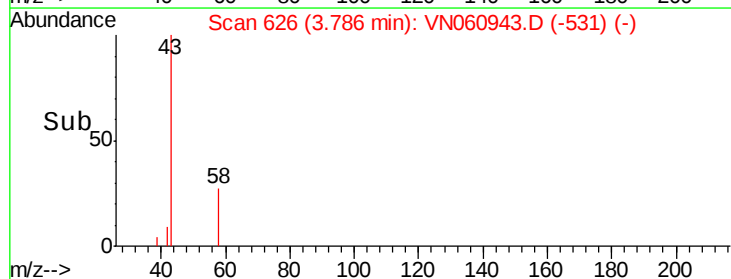
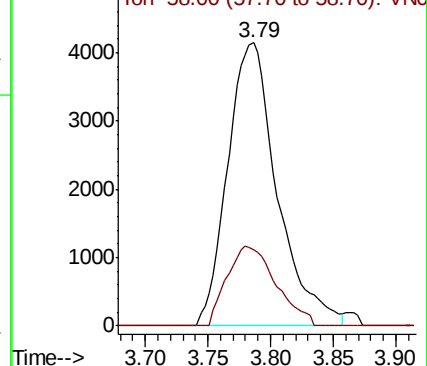
Ion Ratio Lower Upper

43 100

58 26.9 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-597) (-)

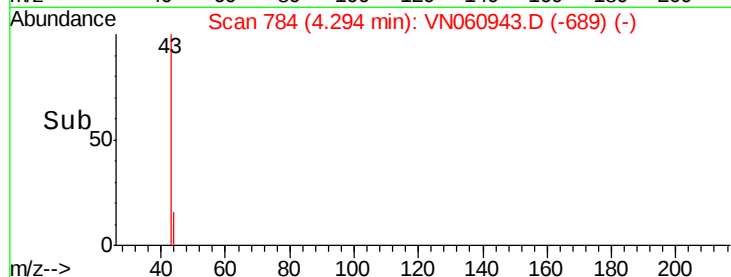
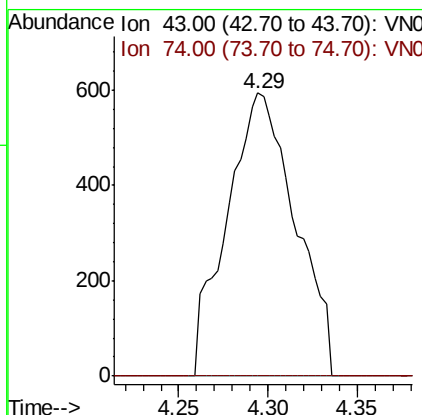
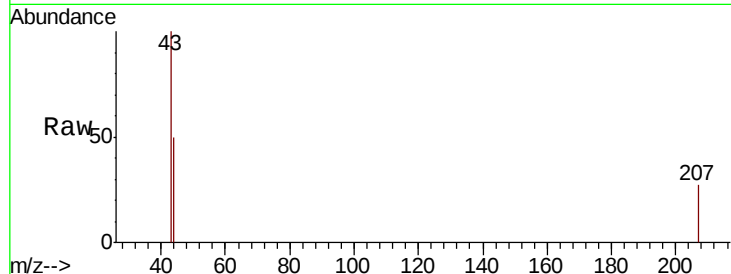




#18
Methyl Acetate
Concen: 0.889 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060943.D
Acq: 14 Apr 2020 18:53

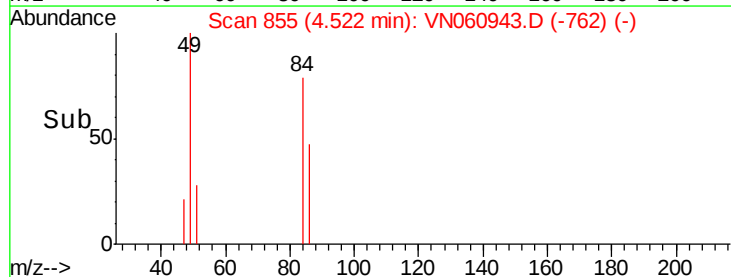
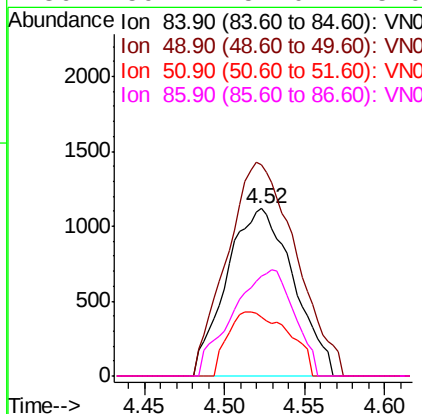
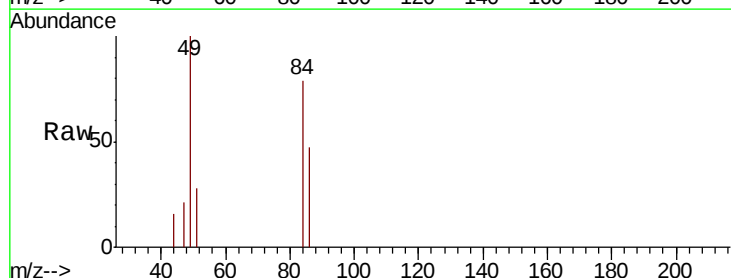
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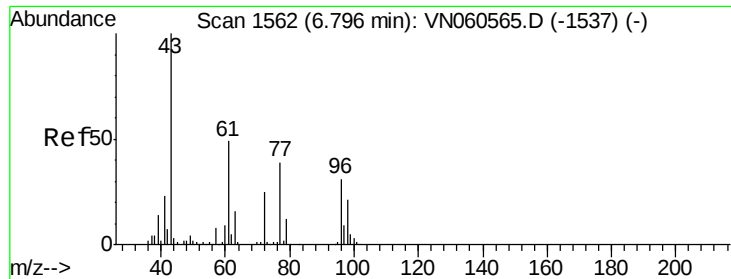
Tot Ion: 43 Resp: 1586
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 2.065 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060943.D
Acq: 14 Apr 2020 18:53

Tgt Ion: 84 Resp: 3220
Ion Ratio Lower Upper
84 100
49 126.5 103.3 154.9
51 35.5 31.6 47.4
86 59.7 52.0 78.0





#25

2-Butanone

Concen: 3.515 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.01 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

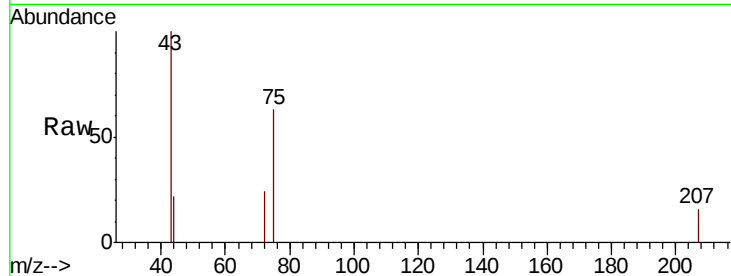
TP-25-24-COMP

Tot Ion: 43 Resp: 3606

Ion Ratio Lower Upper

43 100

72 24.4 20.4 30.6



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-1537) (-)

Ion 72.00 (71.70 to 72.70): VN060565.D (-1537) (-)

6.80

1200

1000

800

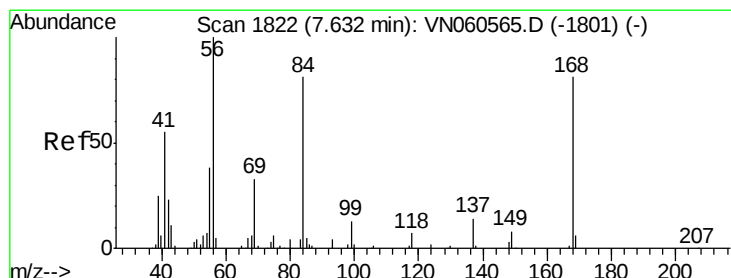
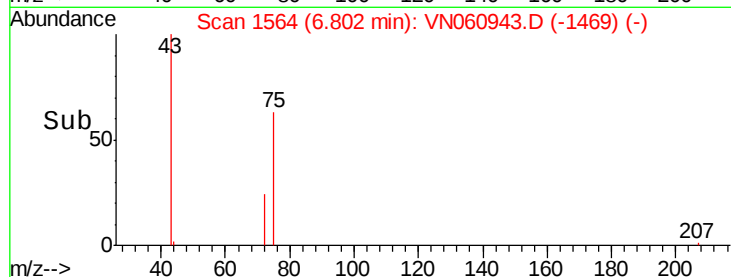
600

400

200

0

Time--> 6.70 6.75 6.80 6.85 6.90



#31

Cyclohexane

Concen: 1.008 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

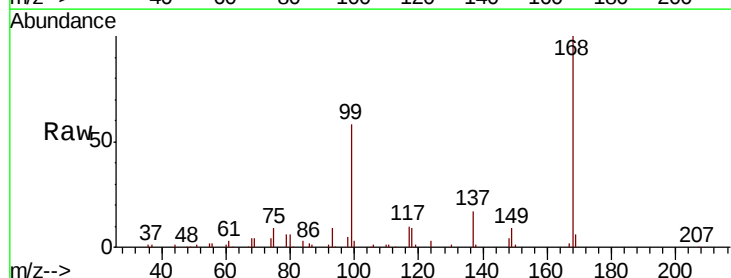
Tgt Ion: 56 Resp: 2905

Ion Ratio Lower Upper

56 100

69 173.5 26.6 40.0#

84 132.6 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN060565.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN060565.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN060565.D (-1801) (-)

3000

2500

2000

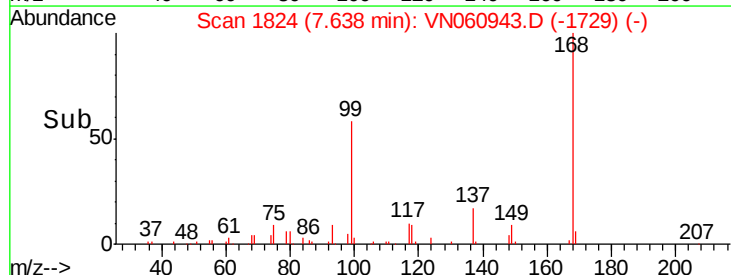
1500

1000

500

0

Time--> 7.60 7.65 7.70

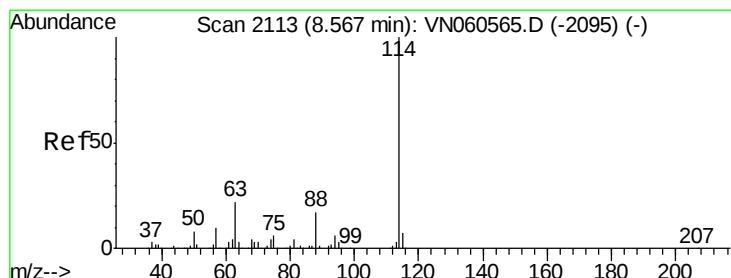
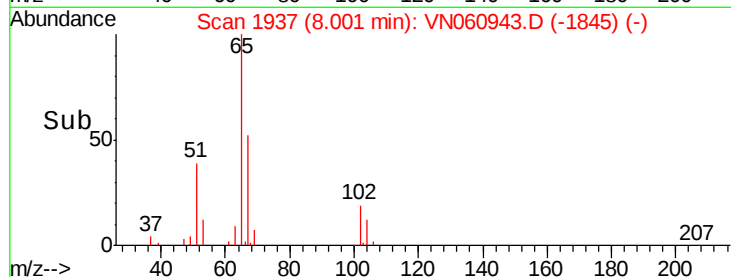
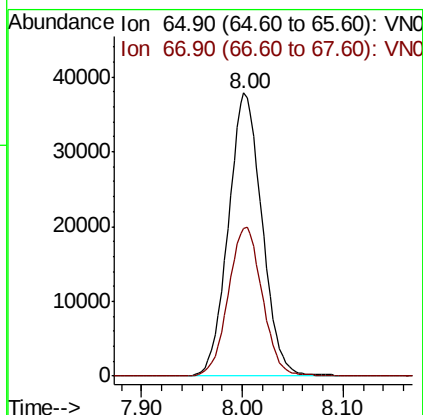
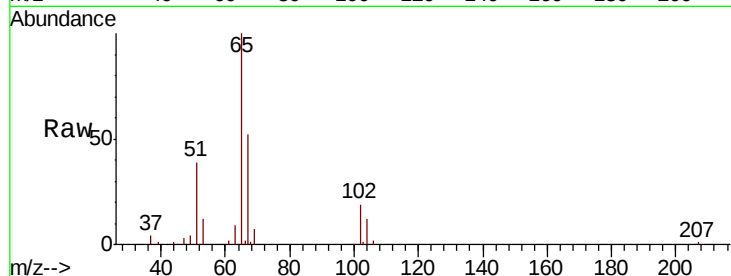




#33
 1,2-Dichloroethane-d4
 Concen: 49.026 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060943.D
 Acq: 14 Apr 2020 18:53

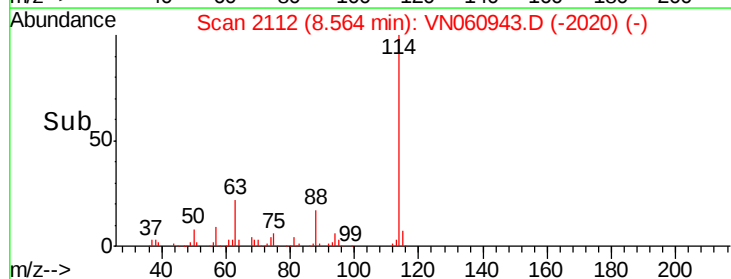
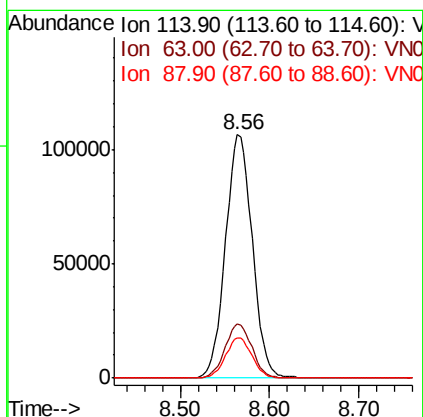
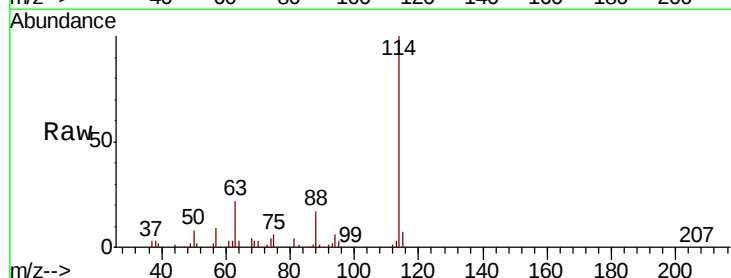
Instrument :
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 TP-25-24-COMP

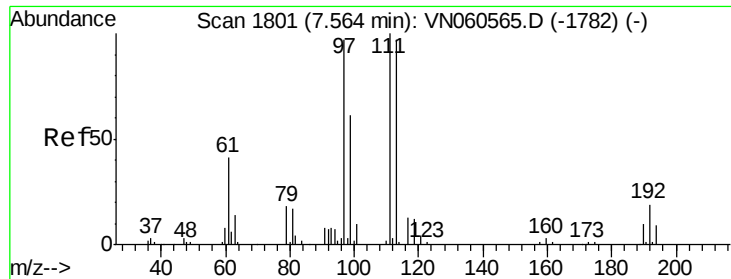
Tot Ion: 65 Resp: 87753
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060943.D
 Acq: 14 Apr 2020 18:53

Tgt Ion: 114 Resp: 222093
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 43.8
 88 16.7 0.0 33.0

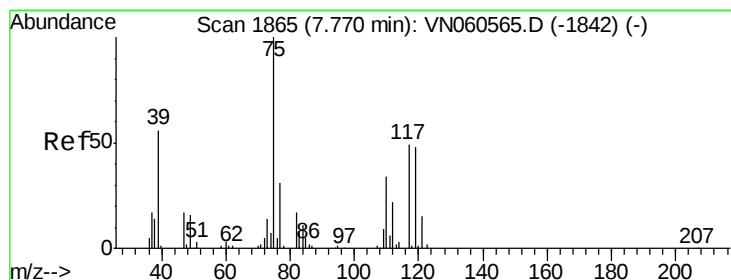
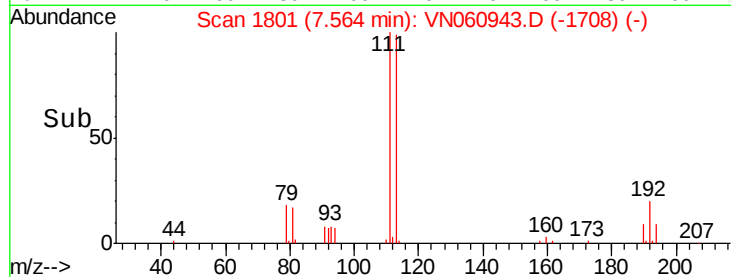
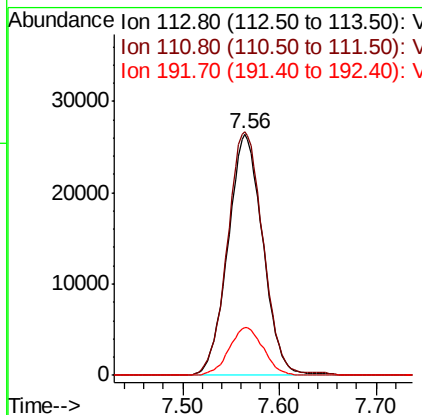
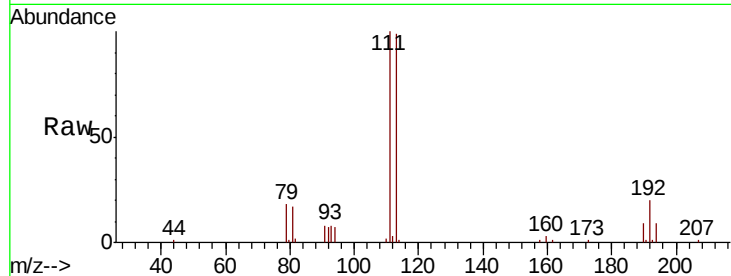




#35
 Dibromofluoromethane
 Concen: 49.131 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060943.D
 Acq: 14 Apr 2020 18:53

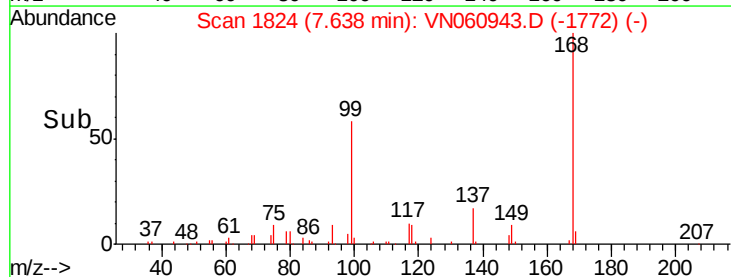
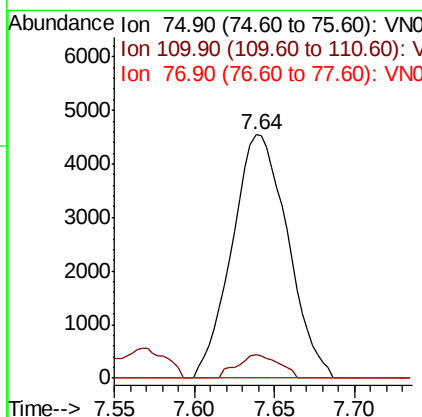
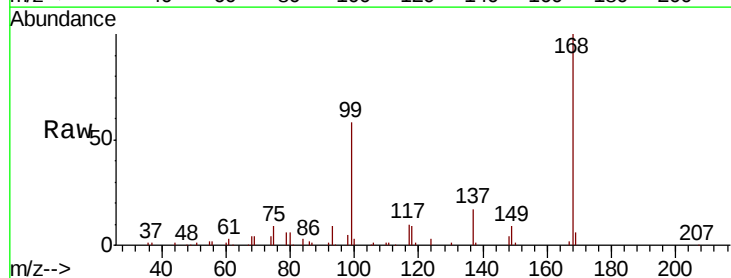
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-25-24-COMP

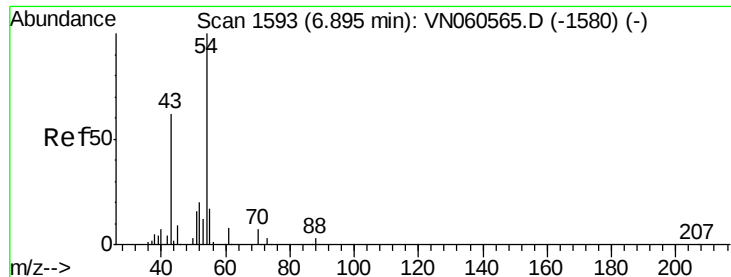
Tot Ion:113 Resp: 65979
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.9 124.3
 192 19.4 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 5.034 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060943.D
 Acq: 14 Apr 2020 18:53

Tgt Ion: 75 Resp: 10825
 Ion Ratio Lower Upper
 75 100
 110 7.2 16.9 50.6#
 77 0.0 24.6 36.8#





#37

Ethyl Acetate

Concen: 1.552 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.09 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

TP-25-24-COMP

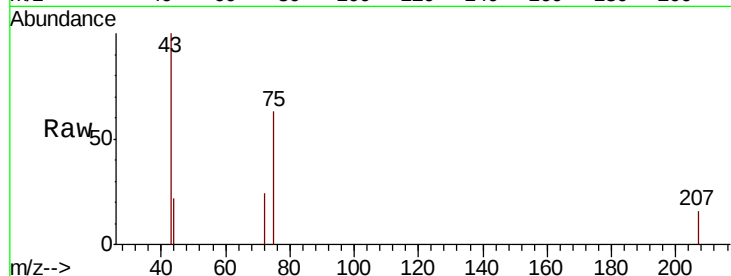
Tot Ion: 43 Resp: 3606

Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

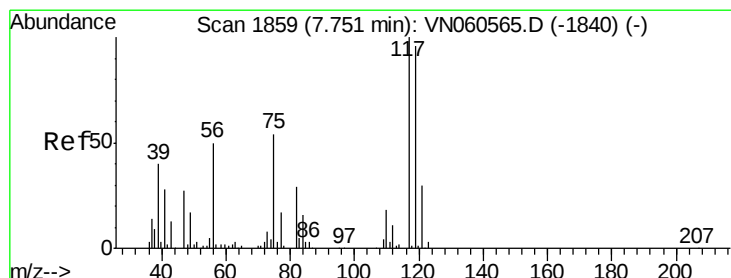
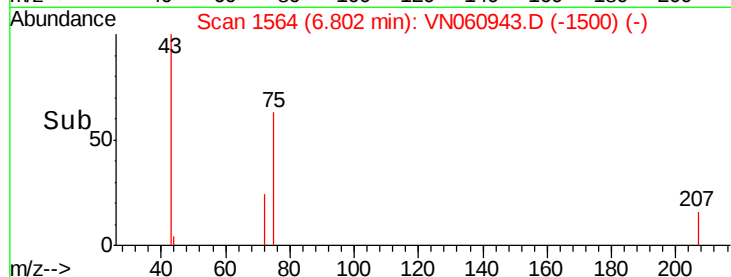
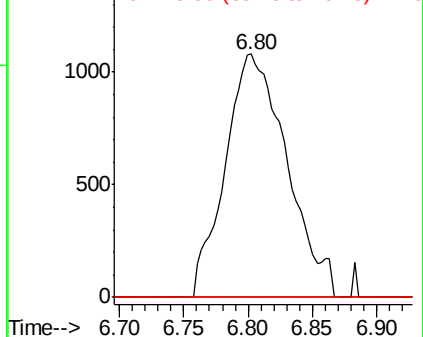
70 0.0 7.9 11.9#



Abundance Ion 43.00 (42.70 to 43.70): VN060943.D (-1564) (-)

Ion 60.90 (60.60 to 61.60): VN060943.D (-1564) (-)

Ion 70.00 (69.70 to 70.70): VN060943.D (-1564) (-)



#38

Carbon Tetrachloride

Concen: 6.629 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

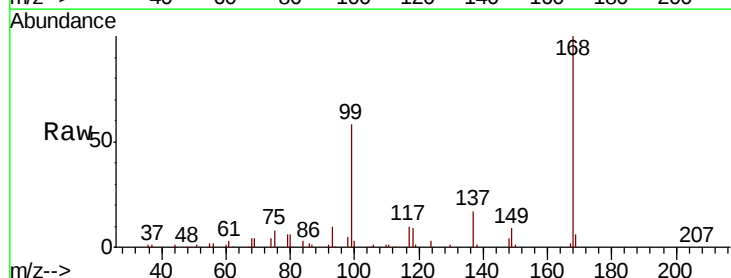
Tgt Ion: 117 Resp: 12777

Ion Ratio Lower Upper

117 100

119 5.9 76.2 114.2#

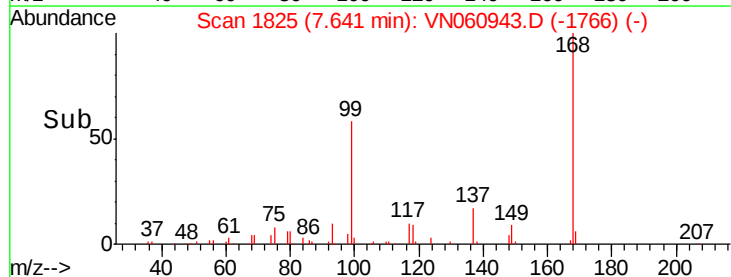
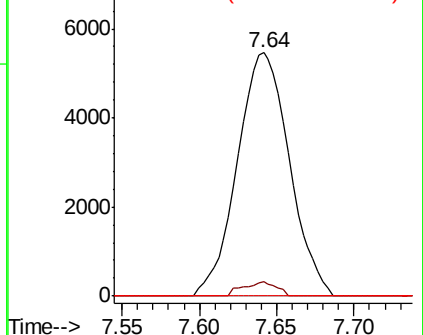
121 0.0 23.7 35.5#

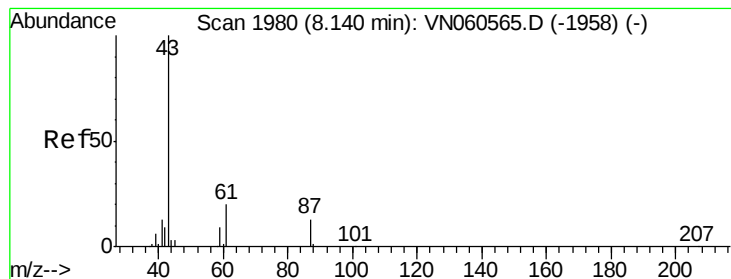


Abundance Ion 116.80 (116.50 to 117.50): VN060943.D (-1825) (-)

Ion 118.80 (118.50 to 119.50): VN060943.D (-1825) (-)

Ion 120.80 (120.50 to 121.50): VN060943.D (-1825) (-)





#43

Isopropyl Acetate

Concen: 12.660 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

TP-25-24-COMP

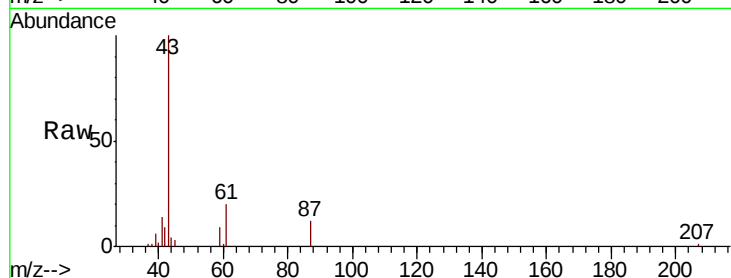
Tot Ion: 43 Resp: 48517

Ion Ratio Lower Upper

43 100

61 19.5 20.7 31.1#

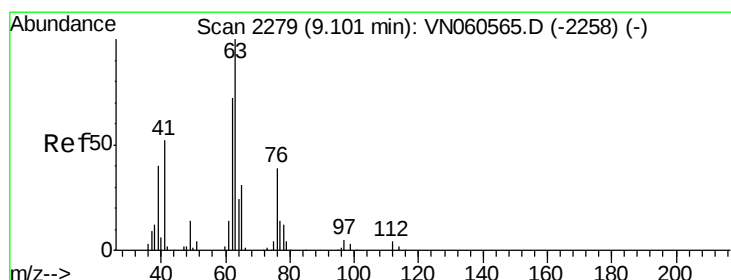
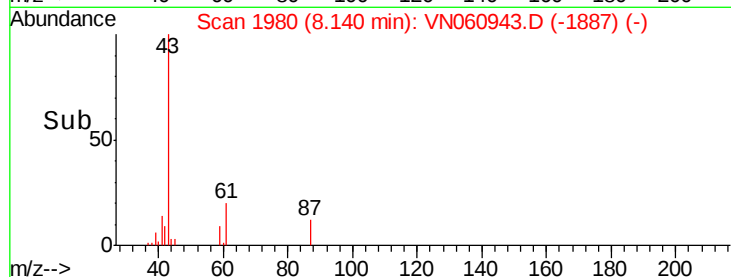
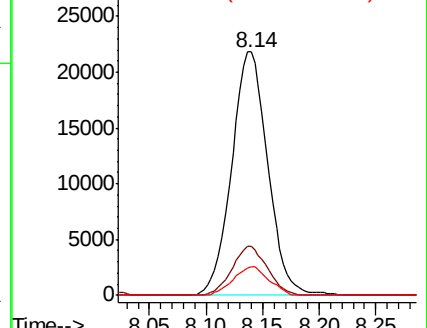
87 11.5 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN060565.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN060565.D (-1958) (-)



#45

1,2-Dichloropropane

Concen: 0.497 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060943.D

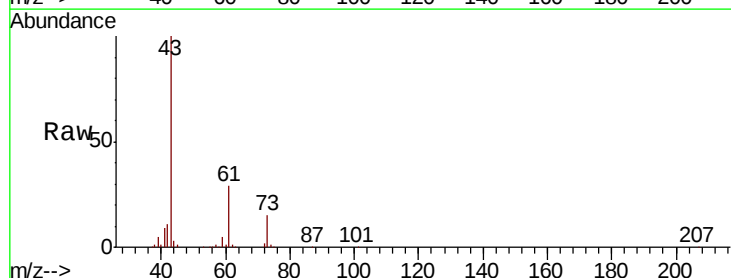
Acq: 14 Apr 2020 18:53

Tgt Ion: 63 Resp: 851

Ion Ratio Lower Upper

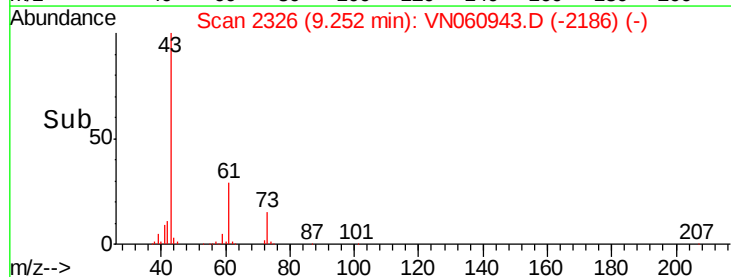
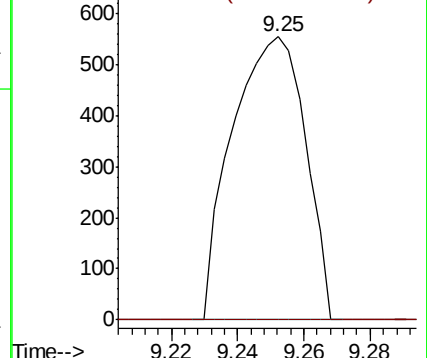
63 100

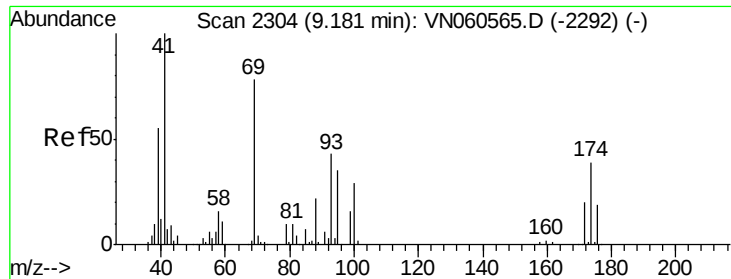
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060565.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060565.D (-2258) (-)

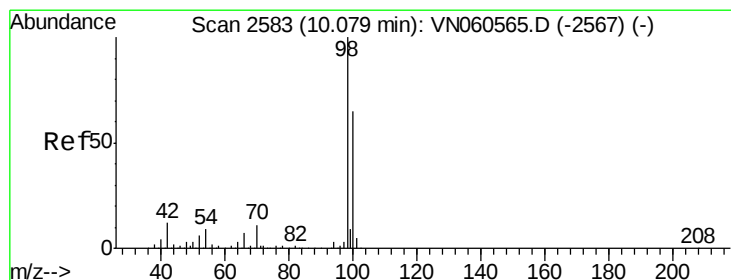
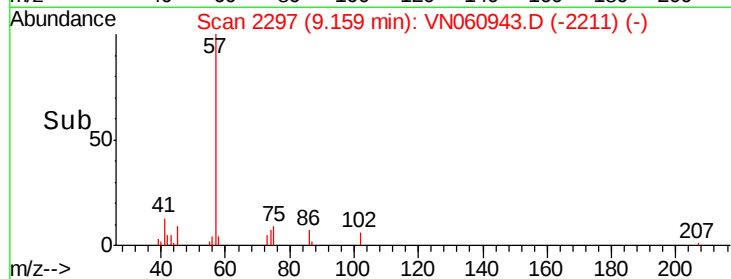
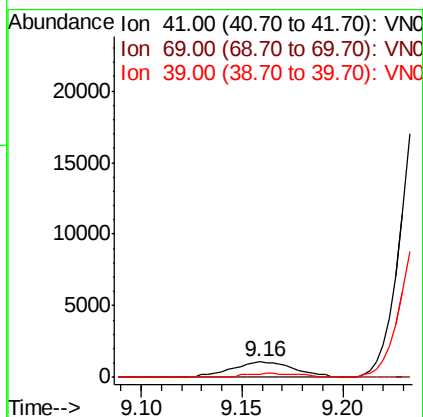
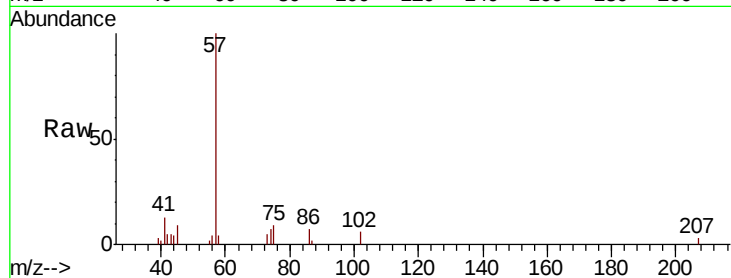




#48
Methvl methacrylate
Concen: 1.369 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060943.D
Acq: 14 Apr 2020 18:53

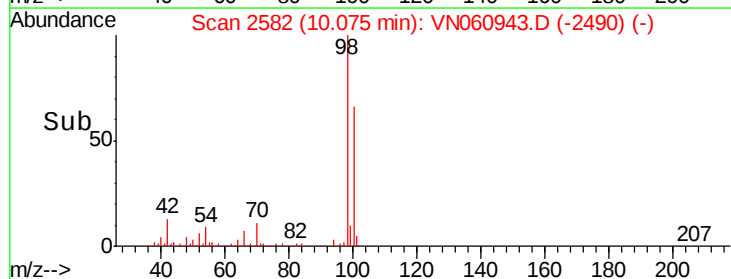
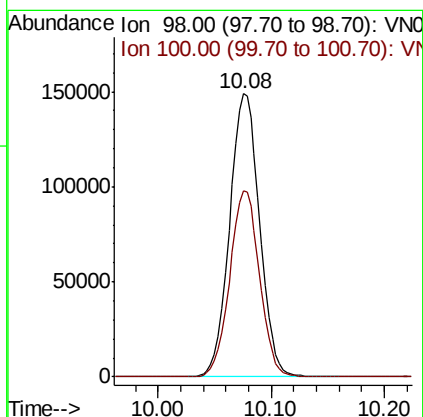
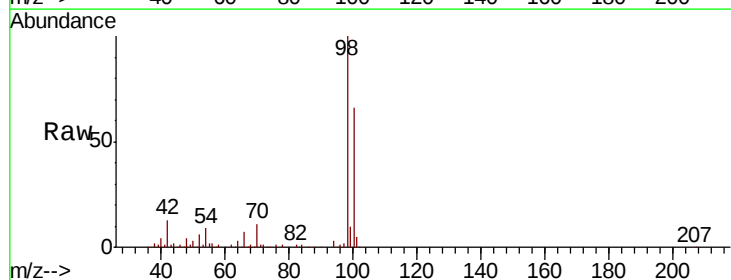
Instrument :
MSVOA_N
ClientSampleId :
TP-25-24-COMP

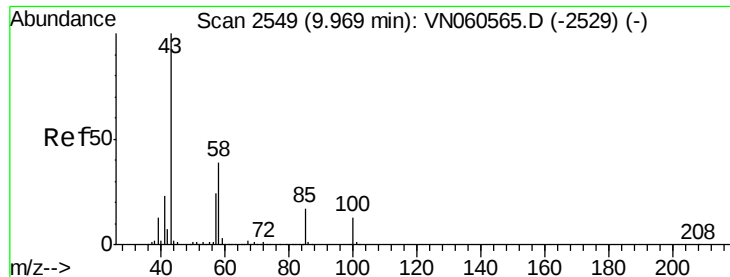
Tot Ion: 41 Resp: 2336
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.031 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060943.D
Acq: 14 Apr 2020 18:53

Tgt Ion: 98 Resp: 274435
Ion Ratio Lower Upper
98 100
100 65.2 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 2.746 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

Instrument :

MSVOA_N

ClientSampled :

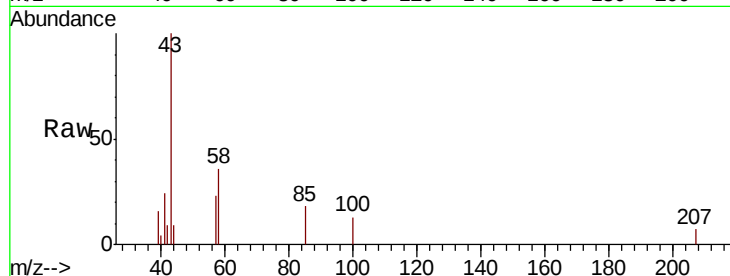
TP-25-24-COMP

Tot Ion: 43 Resp: 5989

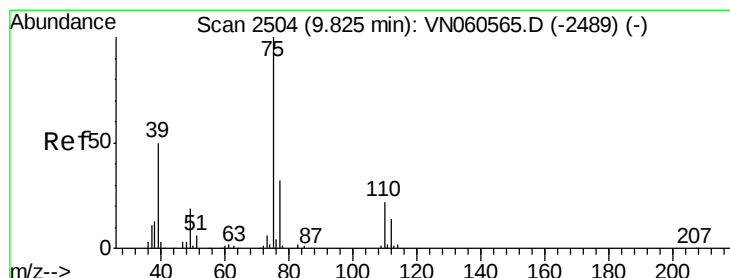
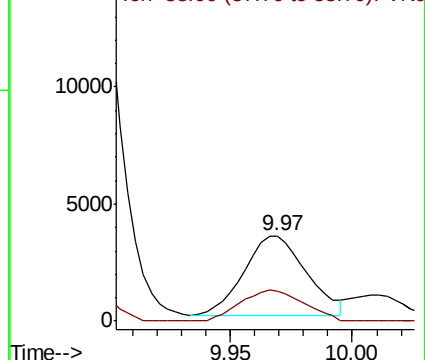
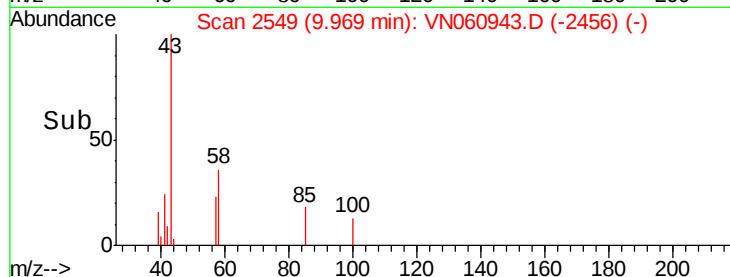
Ion Ratio Lower Upper

43 100

58 39.8 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060943.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 7.415 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

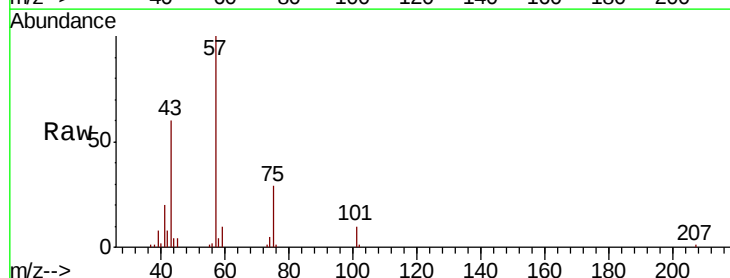
Tgt Ion: 75 Resp: 20110

Ion Ratio Lower Upper

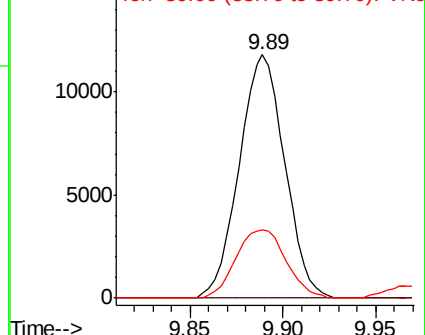
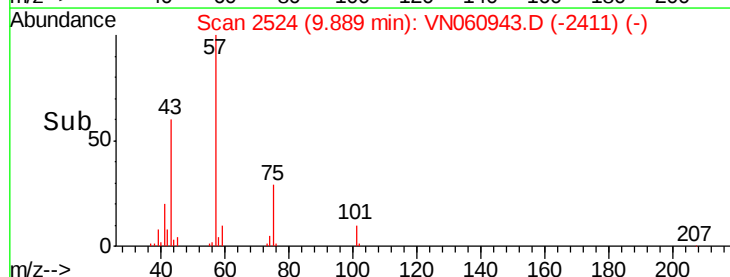
75 100

77 0.0 25.4 38.0#

39 28.1 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060943.D (-2411) (-)





#57

1,3-Dichloropropane

Concen: 1.168 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

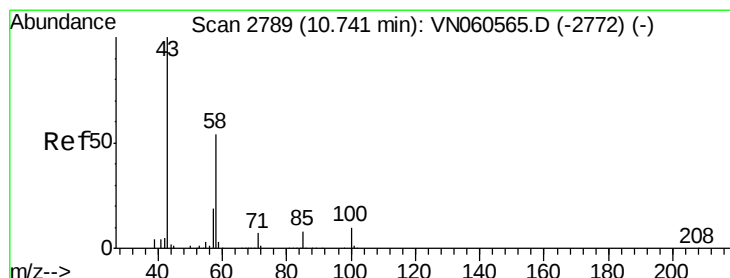
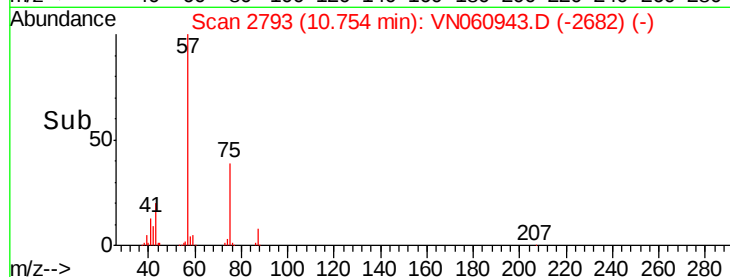
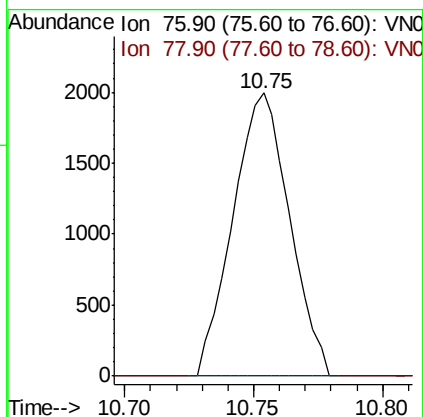
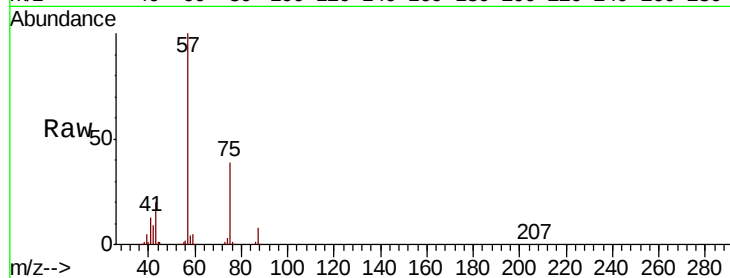
TP-25-24-COMP

Tot Ion: 76 Resp: 3057

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 30.919 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060943.D

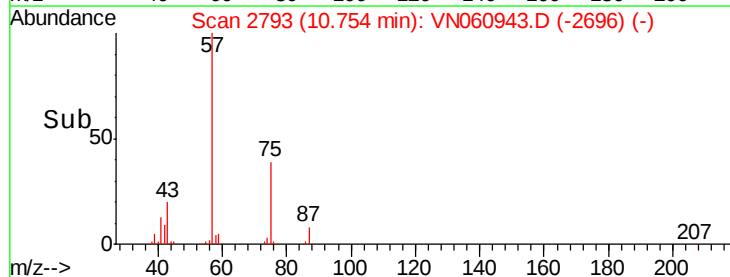
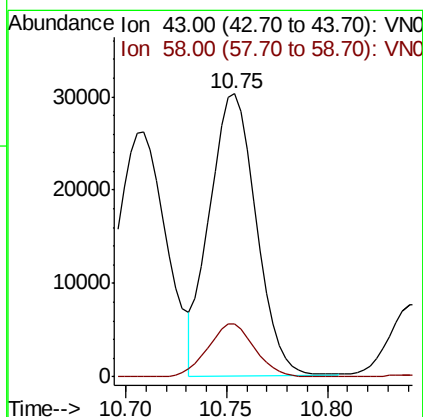
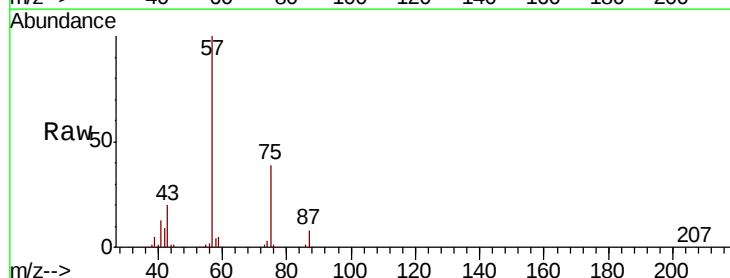
Acq: 14 Apr 2020 18:53

Tgt Ion: 43 Resp: 48570

Ion Ratio Lower Upper

43 100

58 18.7 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 51.297 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

TP-25-24-COMP

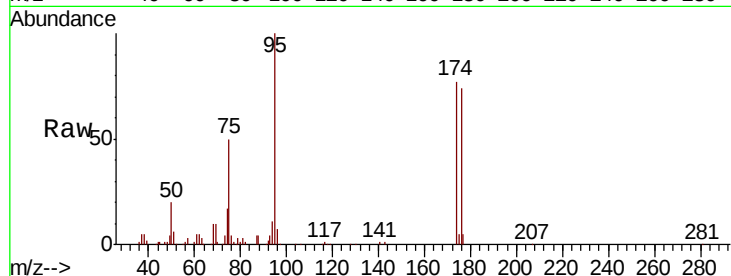
Tot Ion: 95 Resp: 103122

Ion Ratio Lower Upper

95 100

174 75.4 0.0 157.6

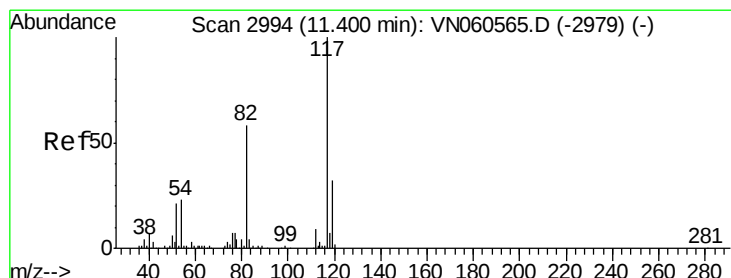
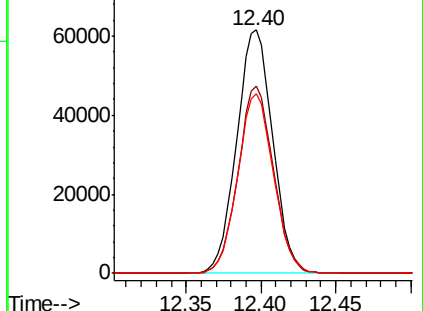
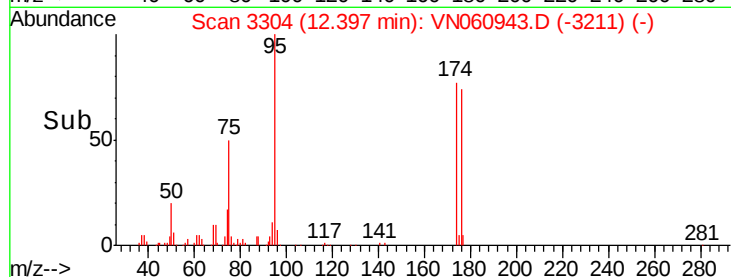
176 73.3 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060943.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060943.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060943.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2993

Delta R.T. -0.00 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

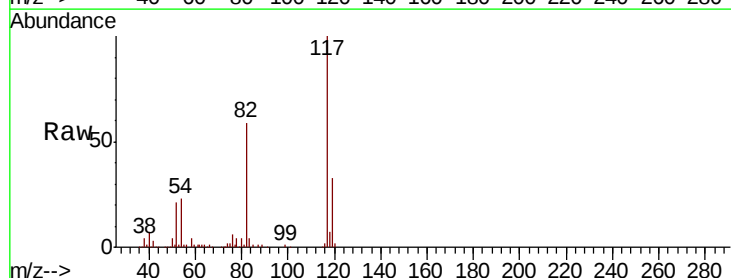
Tgt Ion: 117 Resp: 207056

Ion Ratio Lower Upper

117 100

82 58.7 46.7 70.1

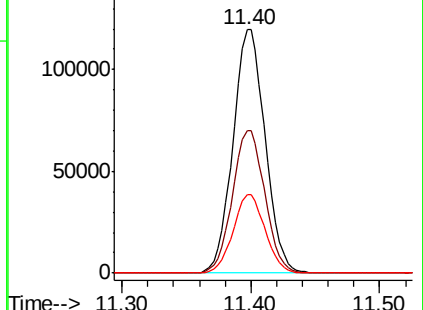
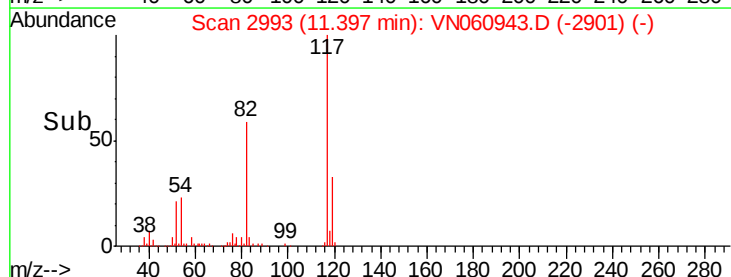
119 32.5 25.5 38.3

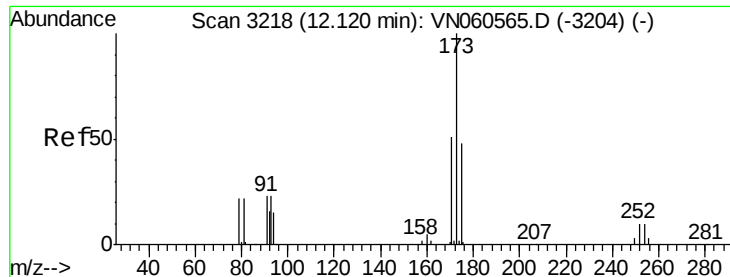


Abundance Ion 116.90 (116.60 to 117.60): VN060943.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060943.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060943.D (-2901) (-)





#71

Bromoform

Concen: 1.857 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

TP-25-24-COMP

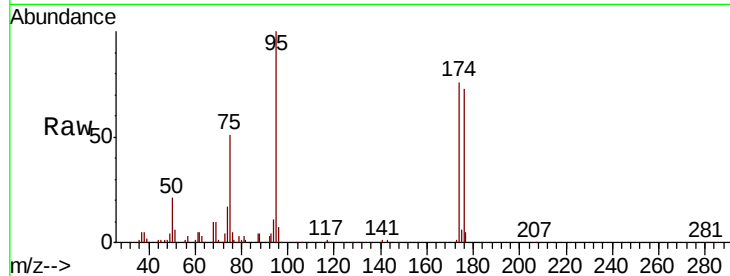
Tot Ion:173 Resp: 226

Ion Ratio Lower Upper

173 100

175 2088.1 24.1 72.4#

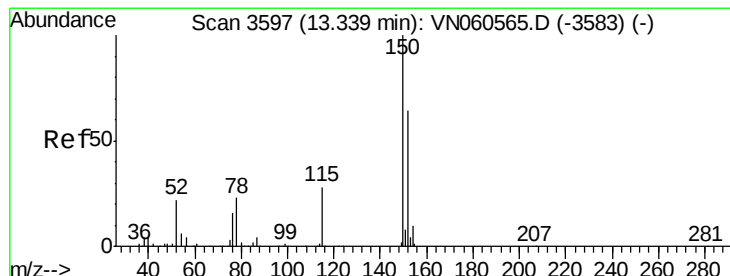
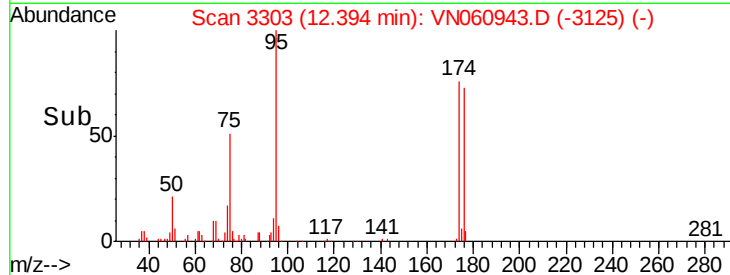
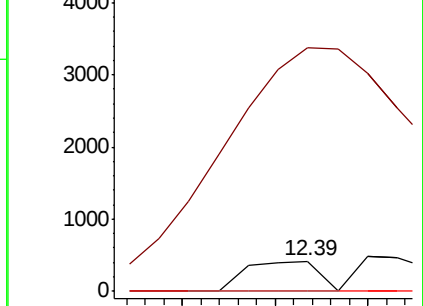
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

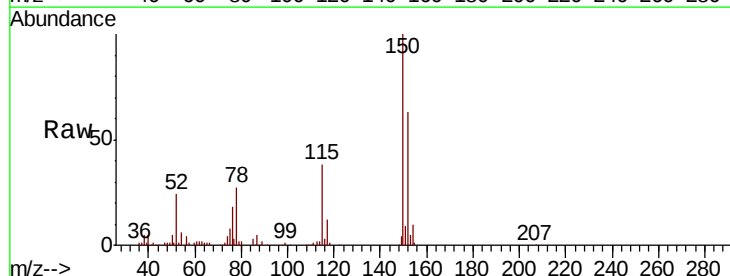
Tgt Ion:152 Resp: 92890

Ion Ratio Lower Upper

152 100

115 61.2 30.2 90.6

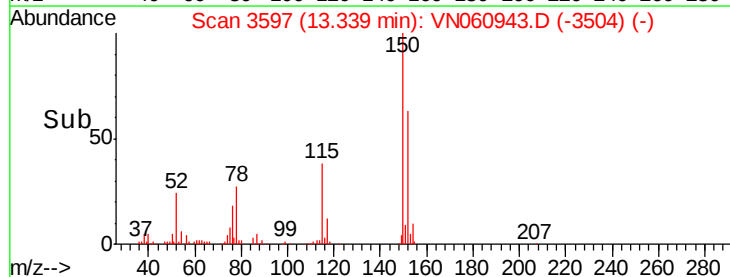
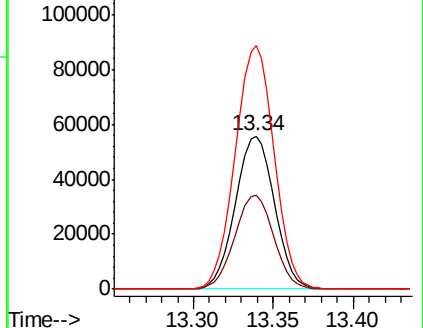
150 158.2 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.808 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

Instrument :

MSVOA_N

ClientSampled :

TP-25-24-COMP

Tot Ion: 43 Resp: 2602

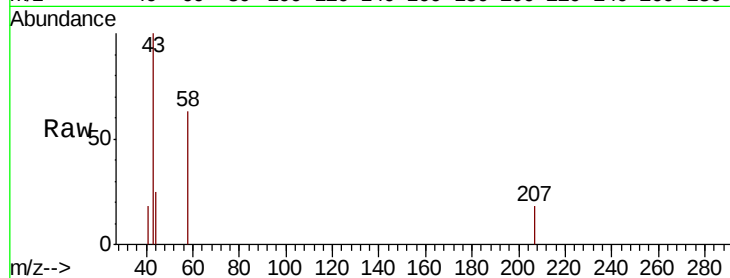
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

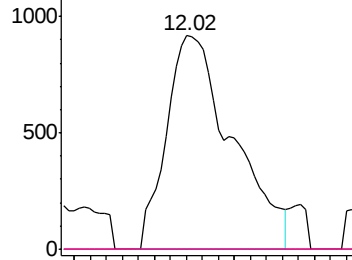


Abundance Ion 43.00 (42.70 to 43.70): VN0

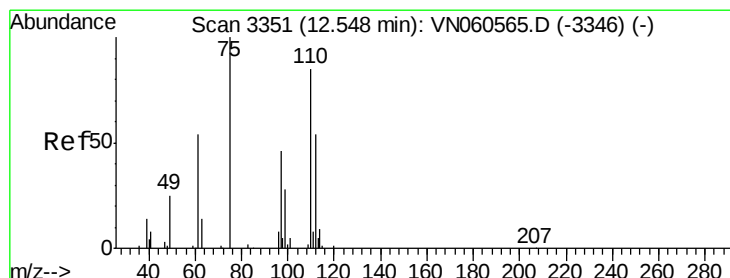
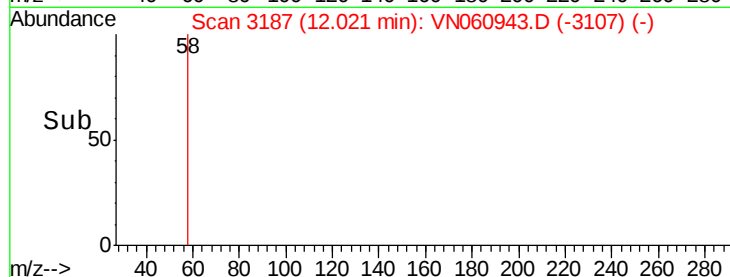
Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



Time-->



#76

1,2,3-Trichloropropane

Concen: 26.095 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060943.D

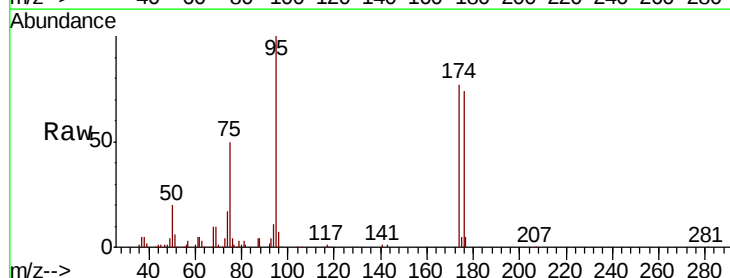
Acq: 14 Apr 2020 18:53

Tgt Ion: 75 Resp: 52304

Ion Ratio Lower Upper

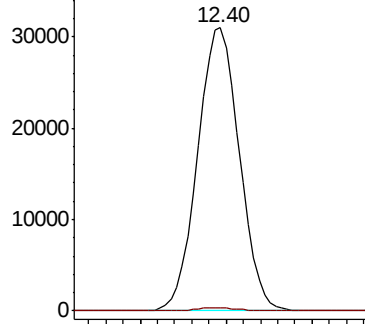
75 100

77 1.0 0.0 0.0#

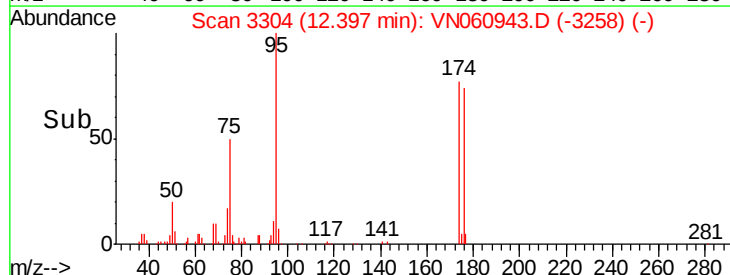


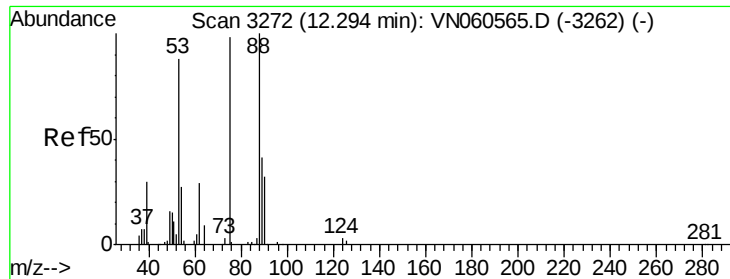
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 67.020 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060943.D

Acq: 14 Apr 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

TP-25-24-COMP

Tot Ion: 75 Resp: 52304

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

