

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041420\
 Data File : VN060941.D
 Acq On : 14 Apr 2020 18:08
 Operator : JC/MD
 Sample : L2243-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-31-30-COMP

Quant Time: Apr 15 07:48:46 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	145537	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	249141	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	237415	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	106817	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	97901	49.00	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.00%	
35) Dibromofluoromethane	7.56	113	73469	48.77	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.54%	
50) Toluene-d8	10.08	98	310527	50.46	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.92%	
62) 4-Bromofluorobenzene	12.40	95	117951	52.30	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.60%	

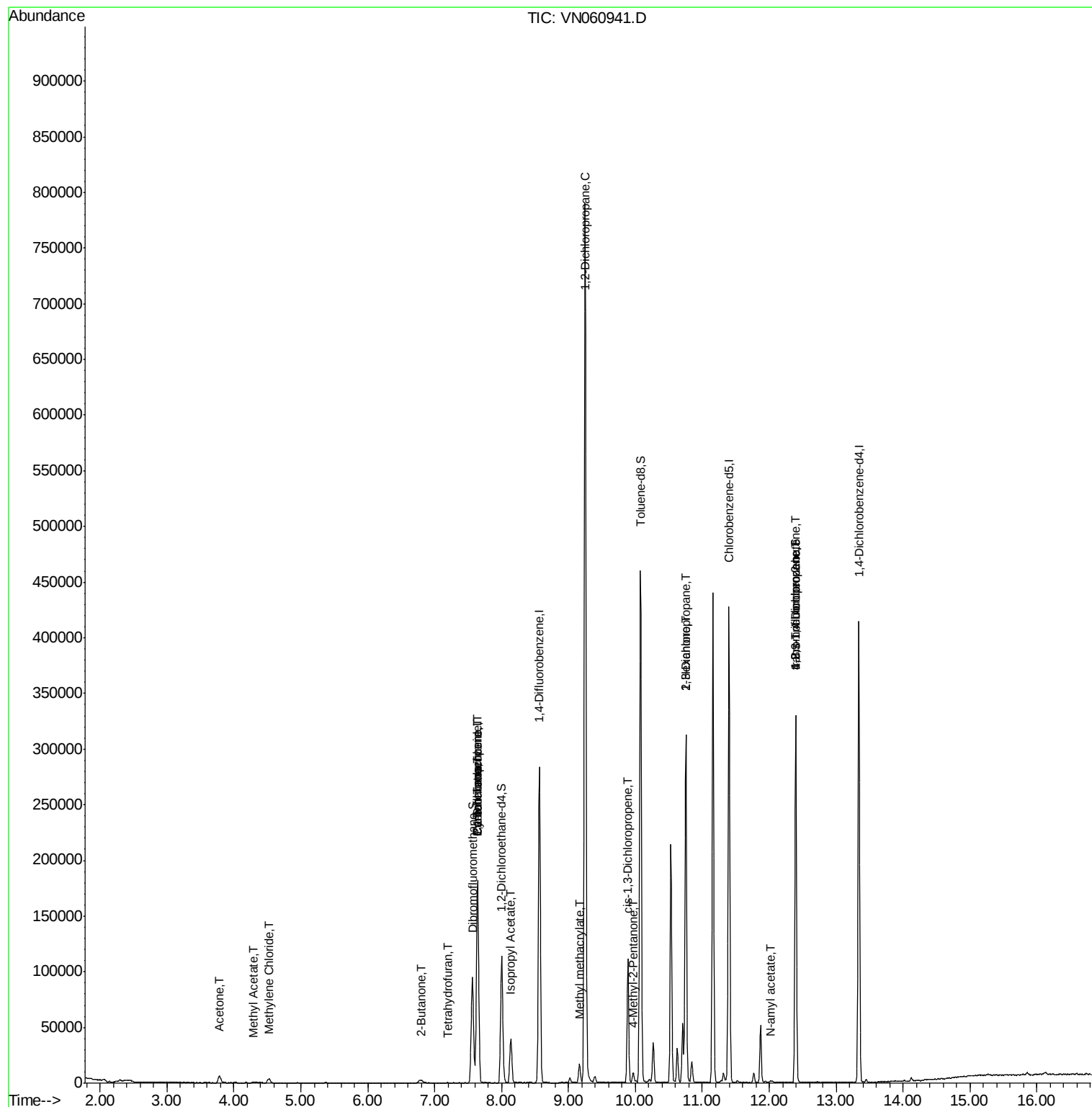
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	11942	16.875	ug/l	98
18) Methyl Acetate	4.29	43	735	0.369	ug/l #	54
20) Methylene Chloride	4.52	84	2866	1.646	ug/l	94
25) 2-Butanone	6.81	43	3427	2.993	ug/l	92
29) Tetrahydrofuran	7.19	42	186	0.230	ug/l #	35
31) Cyclohexane	7.64	56	3154	0.980	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11616	4.815	ug/l #	49
38) Carbon Tetrachloride	7.64	117	14400	6.660	ug/l #	16
43) Isopropyl Acetate	8.14	43	48193	11.210	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	850	0.442	ug/l #	43
48) Methyl methacrylate	9.16	41	2484	1.298	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	6309	2.579	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	19571	6.433	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2953	1.006	ug/l #	42
59) 2-Hexanone	10.75	43	46651	26.473	ug/l #	52
74) N-amyl acetate	12.02	43	2793	0.754	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	60171	26.106	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	60171	67.047	ug/l #	13

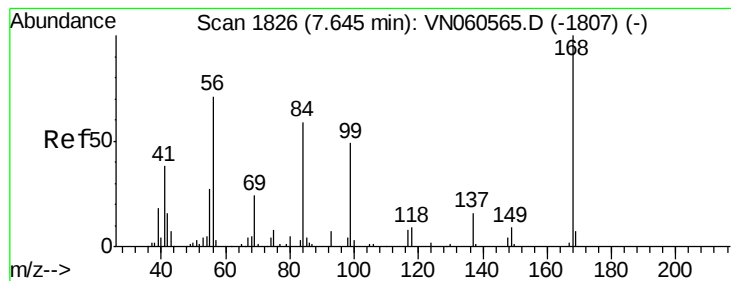
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 18 08:49:09 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

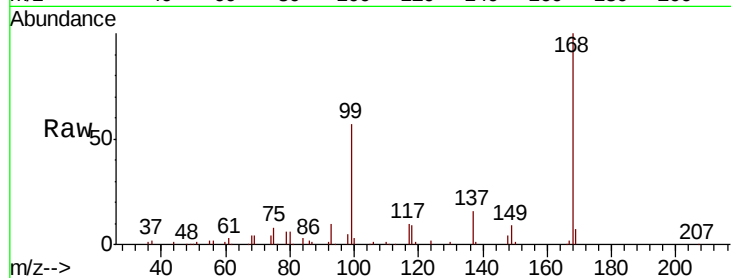
TP-31-30-COMP

Tot Ion:168 Resp: 145537

Ion Ratio Lower Upper

168 100

99 57.1 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060941.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060941.D (-1733) (-)

7.64

60000

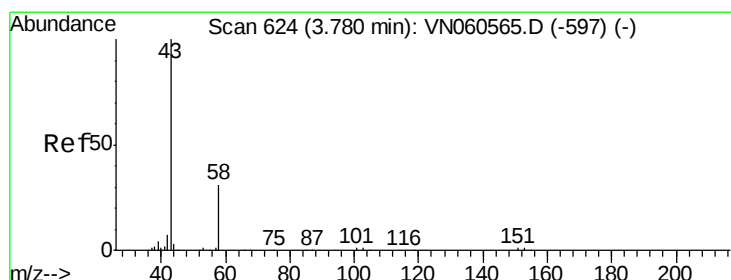
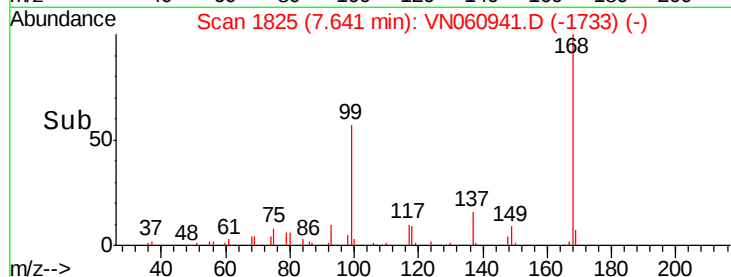
40000

20000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#16

Acetone

Concen: 16.875 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060941.D

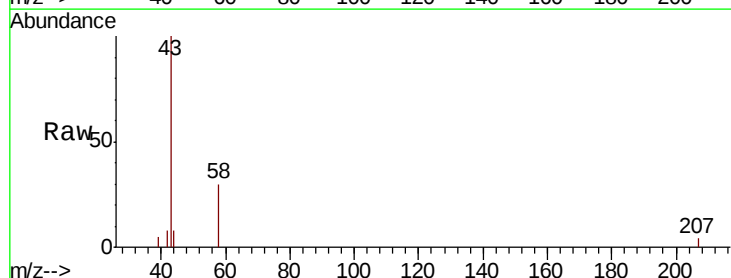
Acq: 14 Apr 2020 18:08

Tgt Ion: 43 Resp: 11942

Ion Ratio Lower Upper

43 100

58 30.1 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060941.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060941.D (-531) (-)

3.78

5000

4000

3000

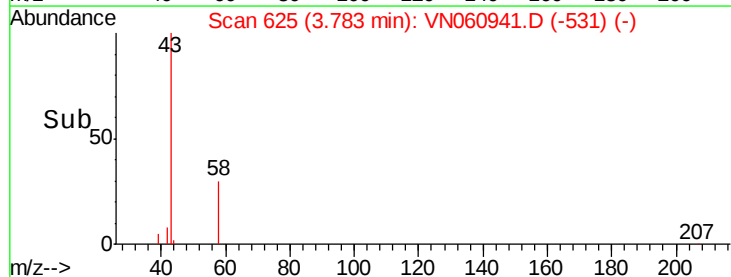
2000

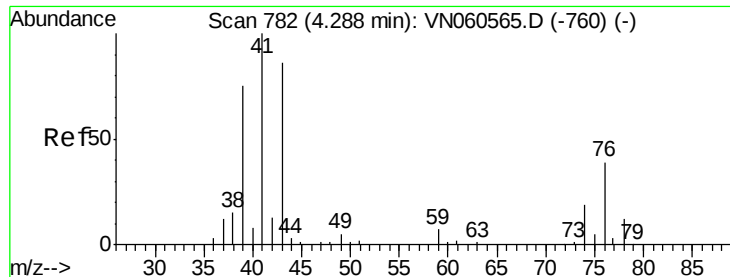
1000

0

3.70 3.75 3.80 3.85 3.90

Time-->

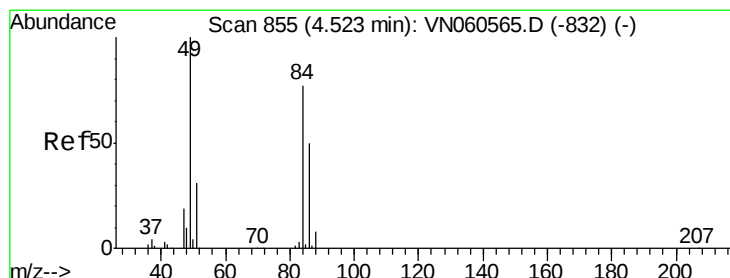
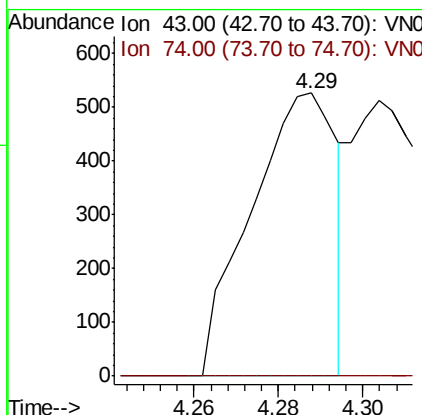
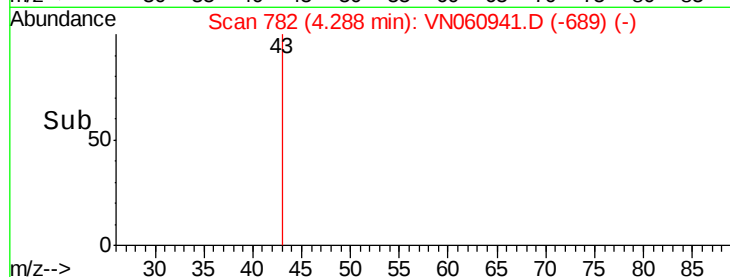
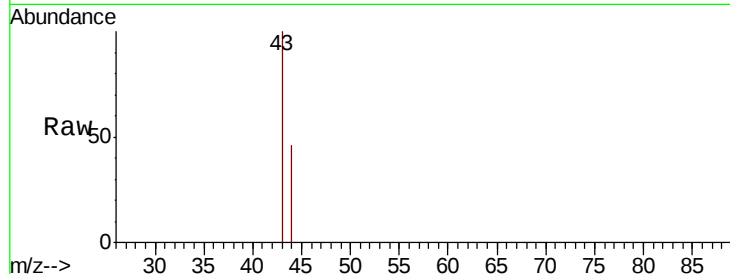




#18
Methvl Acetate
Concen: 0.369 ug/l
RT: 4.29 min Scan# 782
Delta R.T. -0.00 min
Lab File: VN060941.D
Acq: 14 Apr 2020 18:08

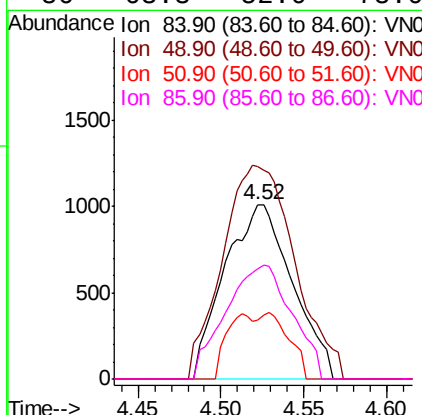
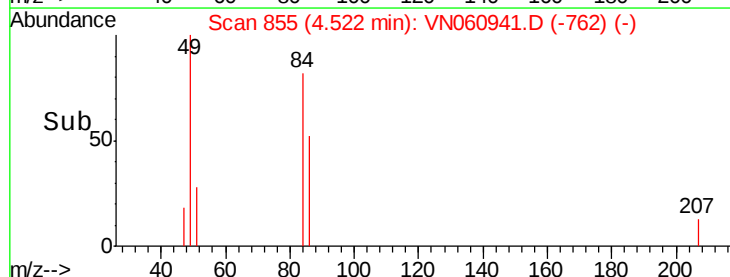
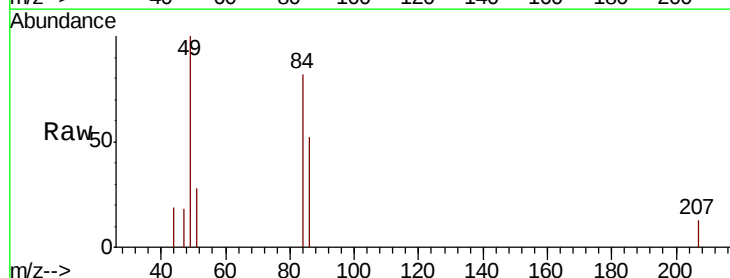
Instrument :
MSVOA_N
ClientSampleId :
TP-31-30-COMP

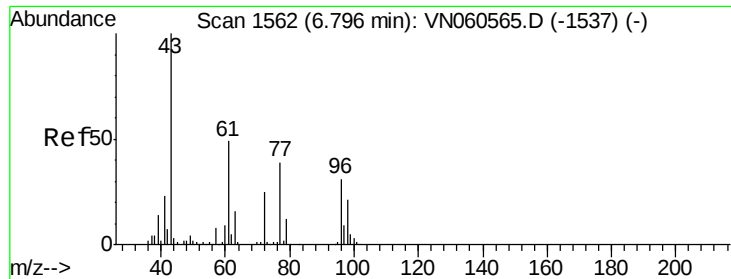
Tot Ion: 43 Resp: 735
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.646 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060941.D
Acq: 14 Apr 2020 18:08

Tgt Ion: 84 Resp: 2866
Ion Ratio Lower Upper
84 100
49 121.7 103.3 154.9
51 33.9 31.6 47.4
86 63.3 52.0 78.0





#25

2-Butanone

Concen: 2.993 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

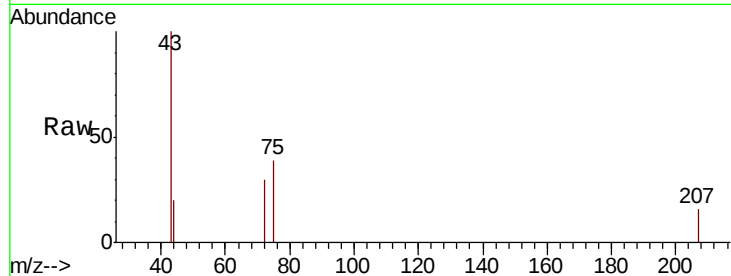
TP-31-30-COMP

Tot Ion: 43 Resp: 3427

Ion Ratio Lower Upper

43 100

72 29.7 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) (-)

6.81

1200

1000

800

600

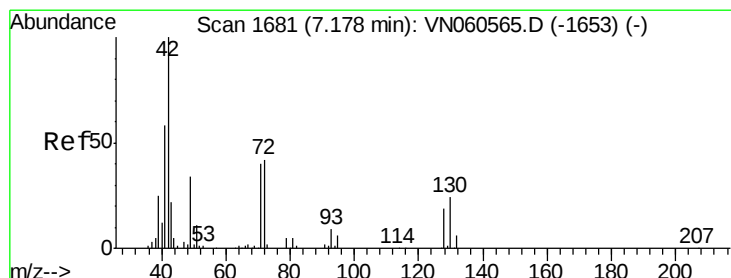
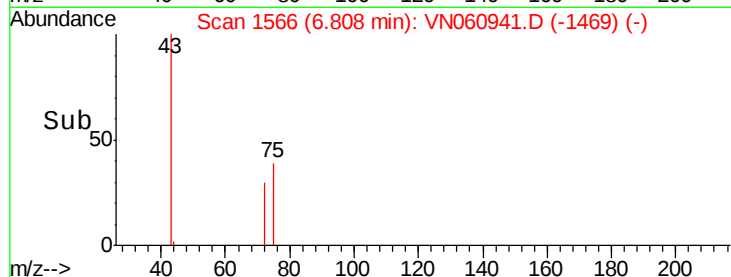
400

200

0

6.75 6.80 6.85

Time-->



#29

Tetrahydrofuran

Concen: 0.230 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.02 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

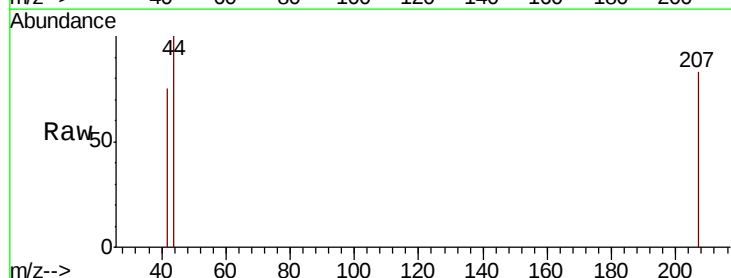
Tgt Ion: 42 Resp: 186

Ion Ratio Lower Upper

42 100

72 0.0 33.2 49.8#

71 0.0 31.1 46.7#



Abundance Ion 42.00 (41.70 to 42.70): VN060565.D (-1653) (-)

Ion 72.00 (71.70 to 72.70): VN060565.D (-1653) (-)

Ion 71.00 (70.70 to 71.70): VN060565.D (-1653) (-)

7.19

200

150

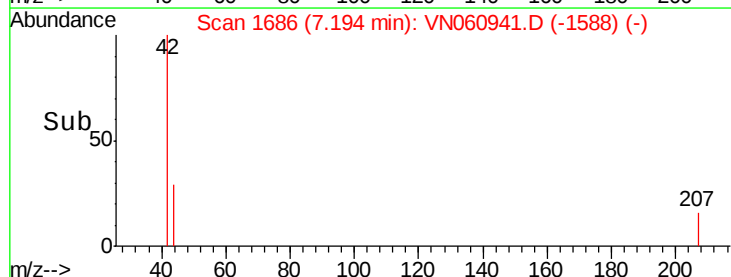
100

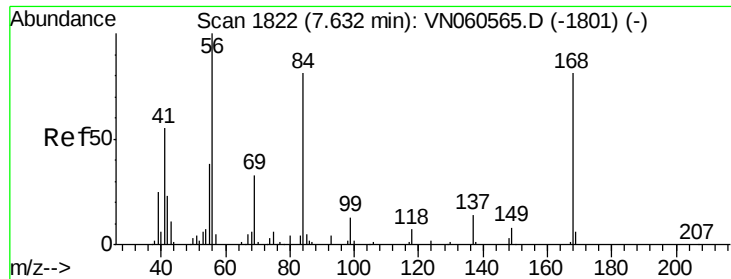
50

0

7.18 7.20

Time-->

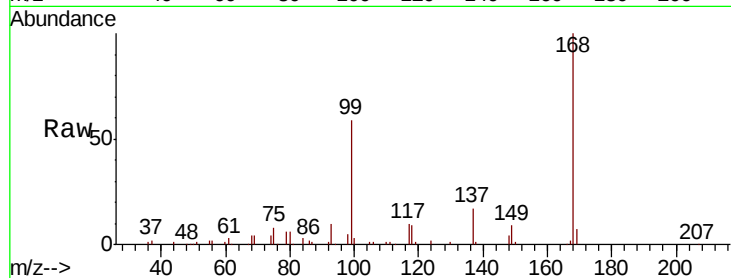




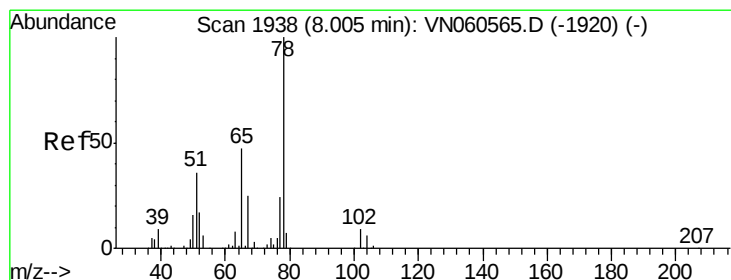
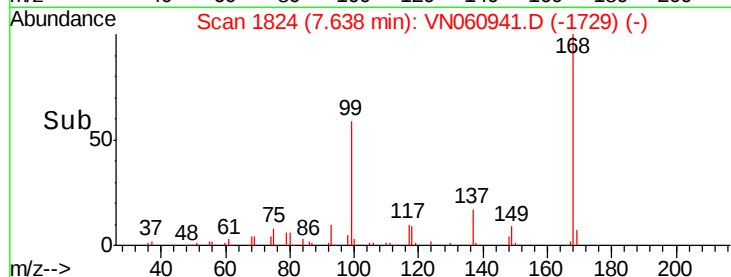
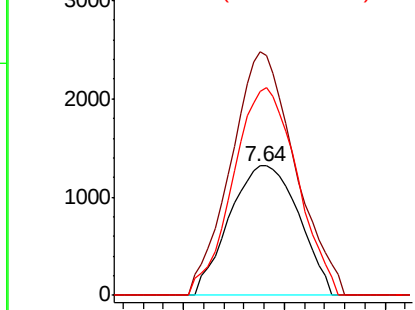
#31
Cyclohexane
Concen: 0.980 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060941.D
Acq: 14 Apr 2020 18:08

Instrument :
MSVOA_N
ClientSampleId :
TP-31-30-COMP

Tot Ion: 56 Resp: 3154
Ion Ratio Lower Upper
56 100
69 188.2 26.6 40.0#
84 157.9 64.3 96.5#

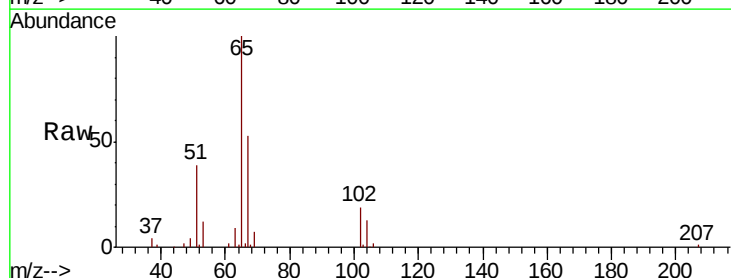


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

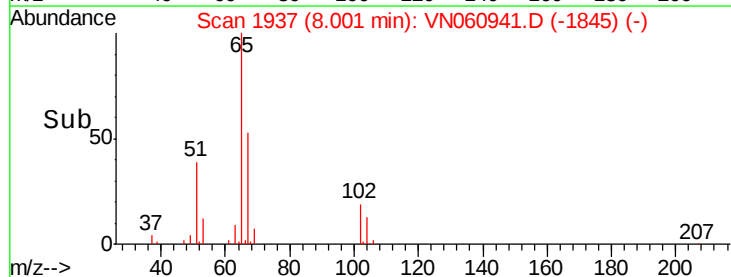
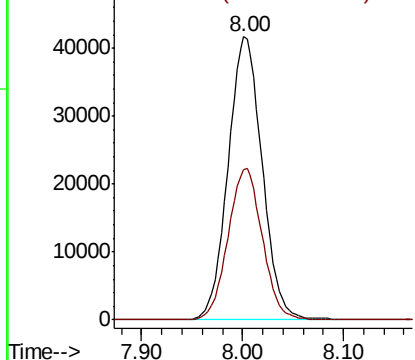


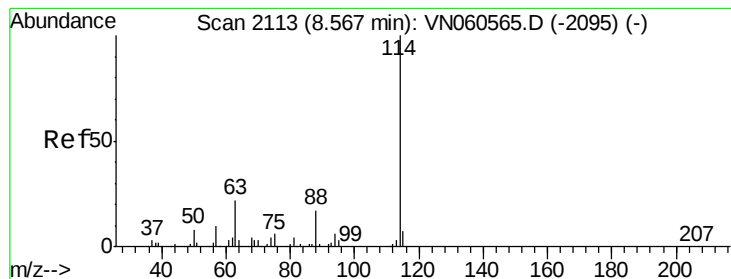
#33
1,2-Dichloroethane-d4
Concen: 49.002 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060941.D
Acq: 14 Apr 2020 18:08

Tgt Ion: 65 Resp: 97901
Ion Ratio Lower Upper
65 100
67 53.5 0.0 107.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

TP-31-30-COMP

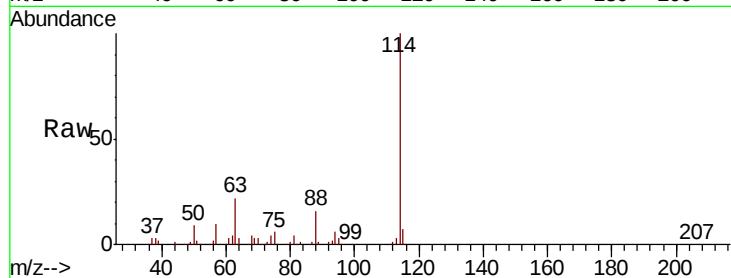
Tot Ion:114 Resp: 249141

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.8

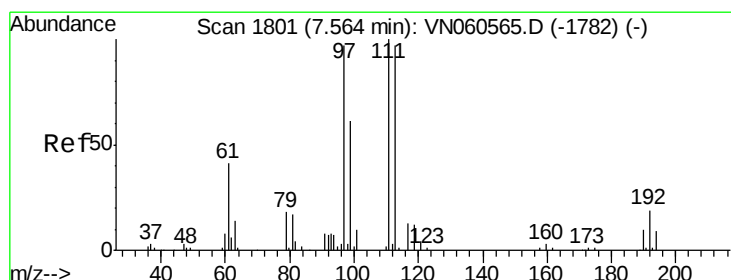
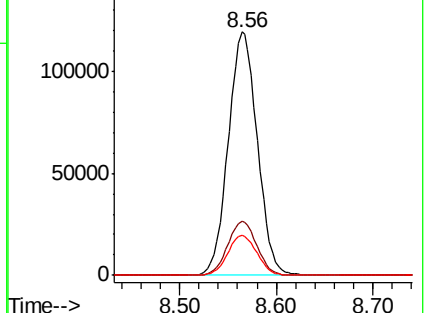
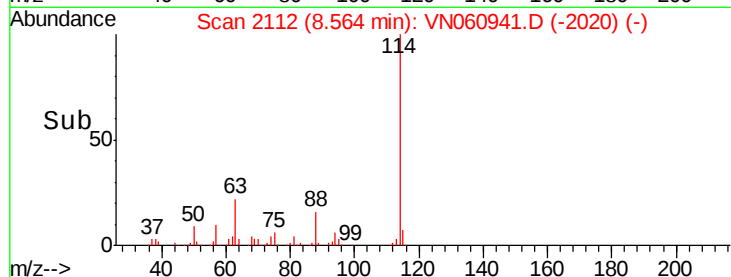
88 16.4 0.0 33.0



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: 48.769 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

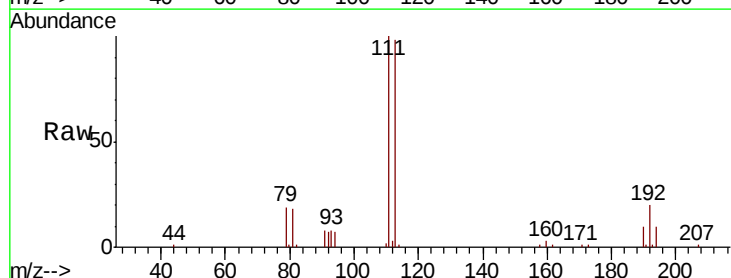
Tgt Ion:113 Resp: 73469

Ion Ratio Lower Upper

113 100

111 103.0 82.9 124.3

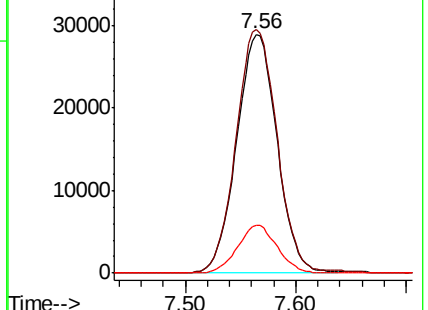
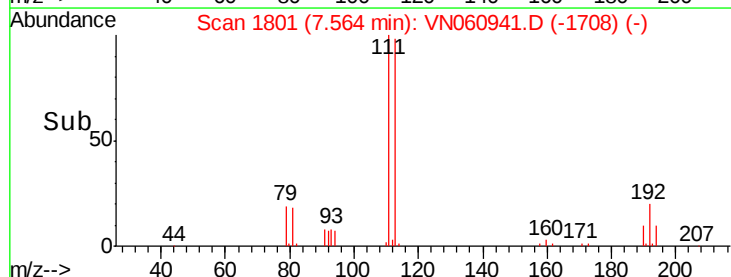
192 19.4 15.8 23.8

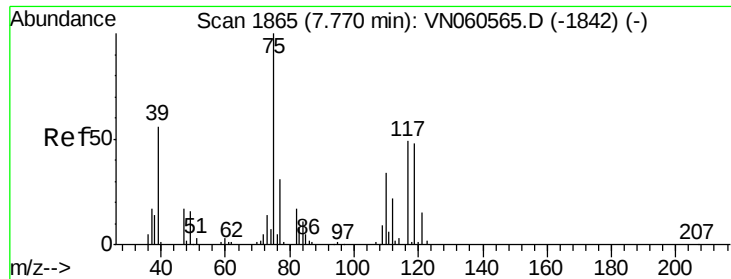


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

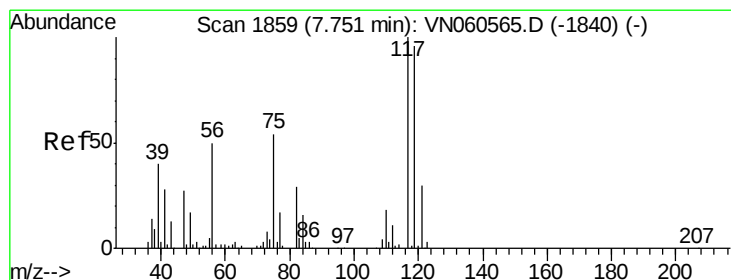
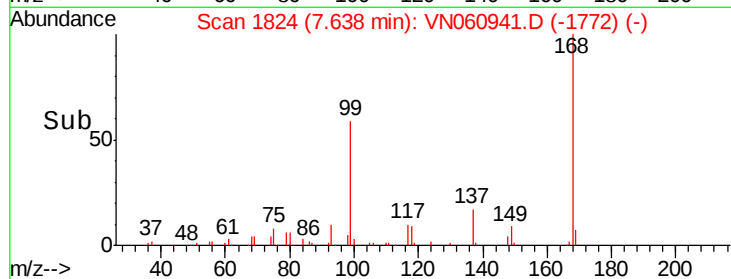
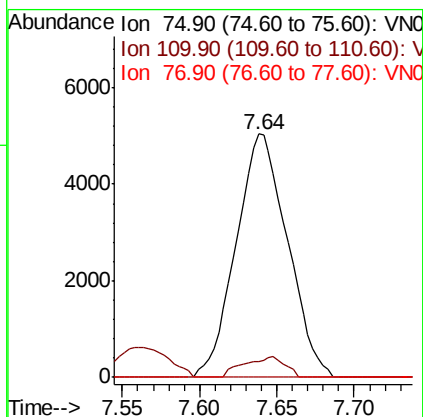
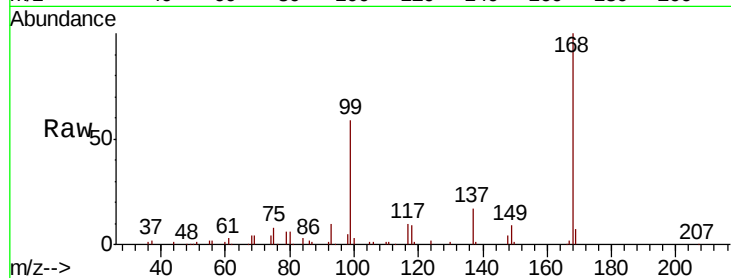




#36
 1,1-Dichloropropene
 Concen: 4.815 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060941.D
 Acq: 14 Apr 2020 18:08

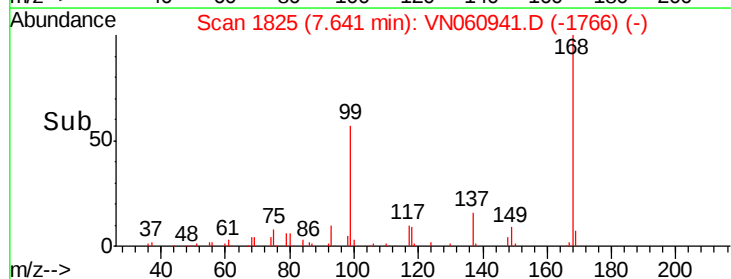
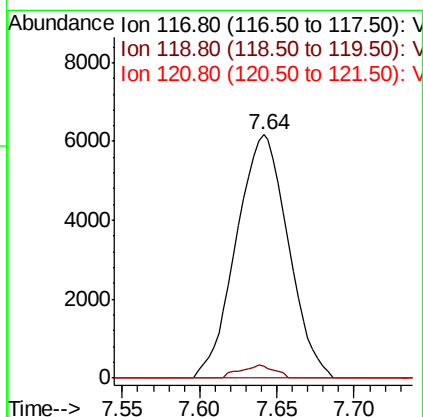
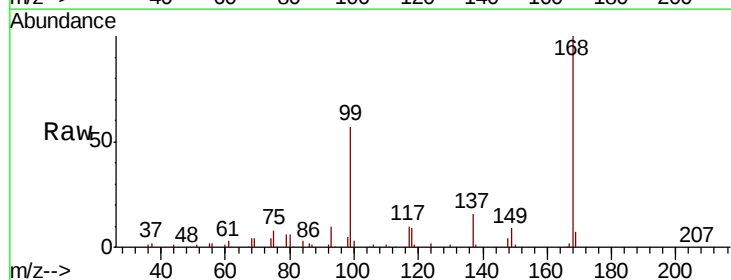
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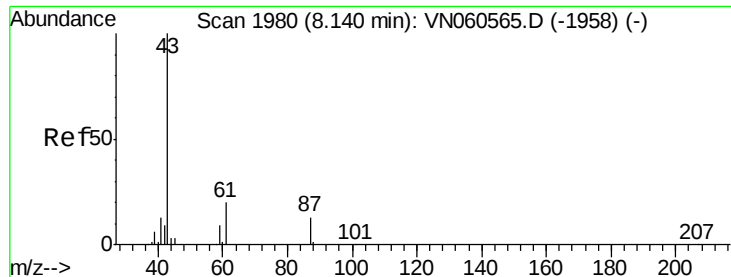
Tot Ion: 75 Resp: 11616
 Ion Ratio Lower Upper
 75 100
 110 6.8 16.9 50.6#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.660 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060941.D
 Acq: 14 Apr 2020 18:08

Tgt Ion: 117 Resp: 14400
 Ion Ratio Lower Upper
 117 100
 119 5.1 76.2 114.2#
 121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 11.210 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

TP-31-30-COMP

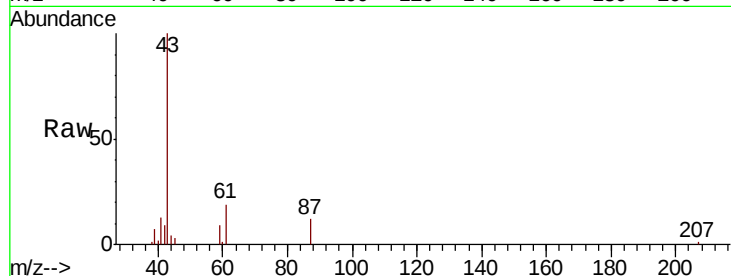
Tot Ion: 43 Resp: 48193

Ion Ratio Lower Upper

43 100

61 18.9 20.7 31.1#

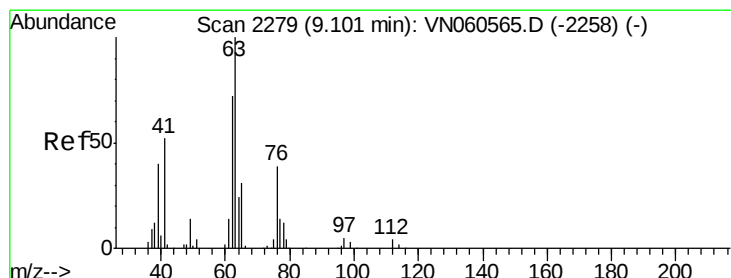
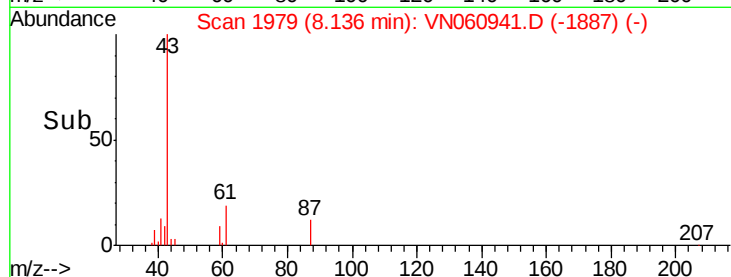
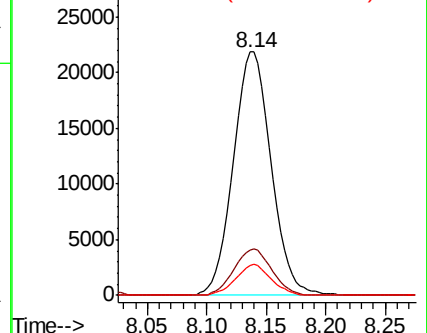
87 11.8 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060941.D (-1979) (-)

Ion 61.00 (60.70 to 61.70): VN060941.D (-1979) (-)

Ion 87.00 (86.70 to 87.70): VN060941.D (-1979) (-)



#45

1,2-Dichloropropane

Concen: 0.442 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060941.D

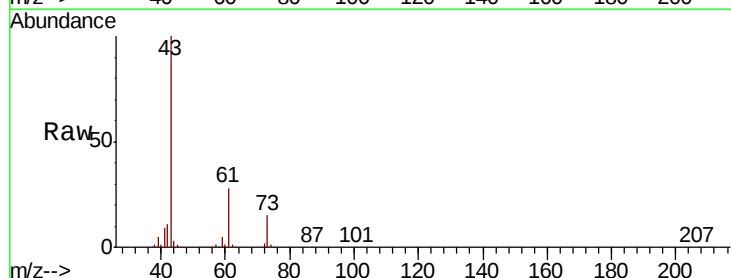
Acq: 14 Apr 2020 18:08

Tgt Ion: 63 Resp: 850

Ion Ratio Lower Upper

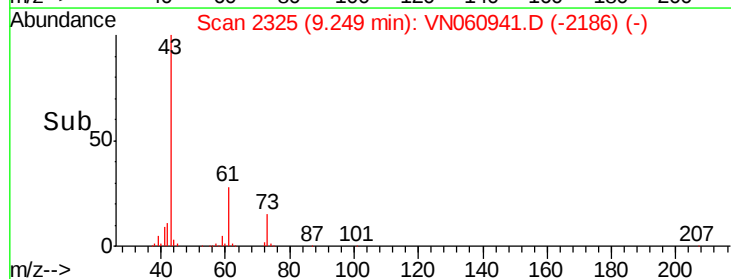
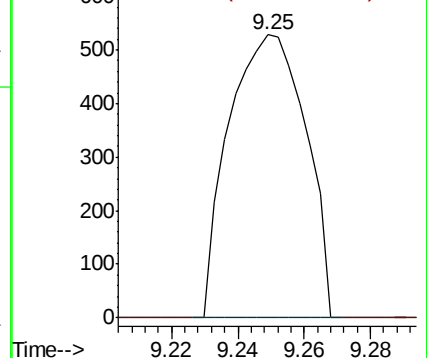
63 100

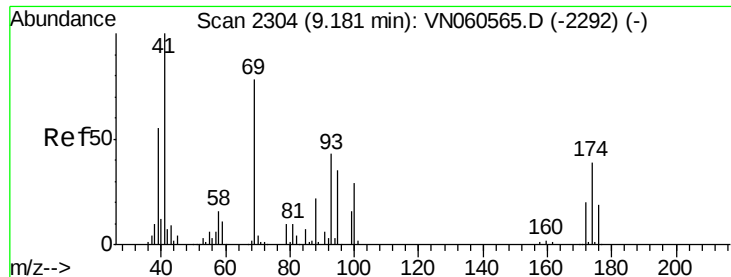
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060941.D (-2325) (-)

Ion 64.90 (64.60 to 65.60): VN060941.D (-2325) (-)

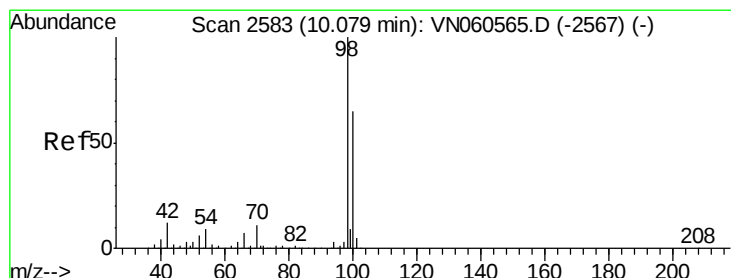
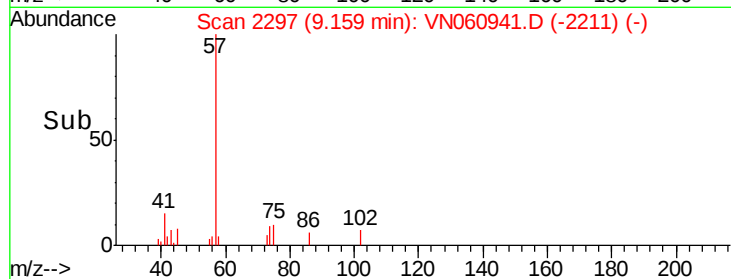
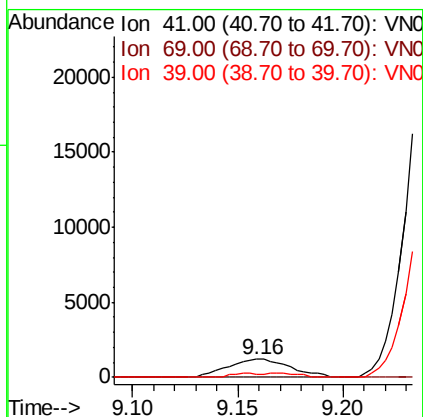
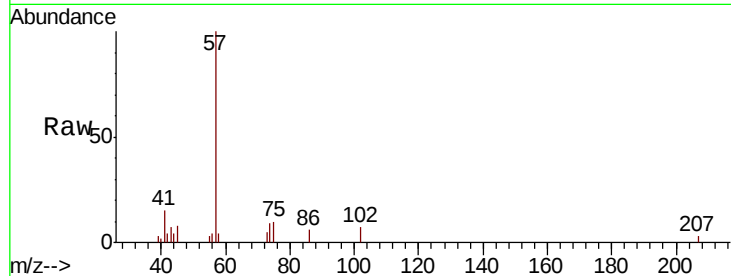




#48
Methvl methacrylate
Concen: 1.298 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060941.D
Acq: 14 Apr 2020 18:08

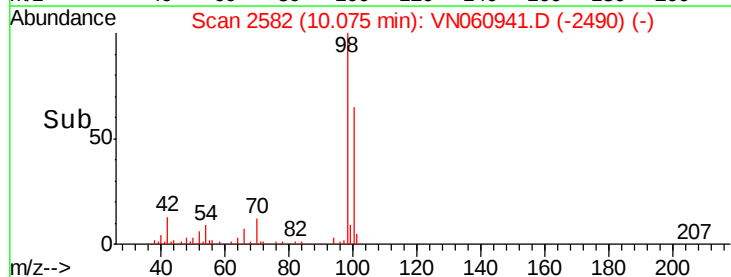
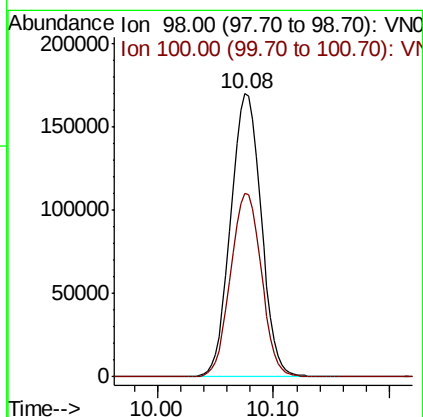
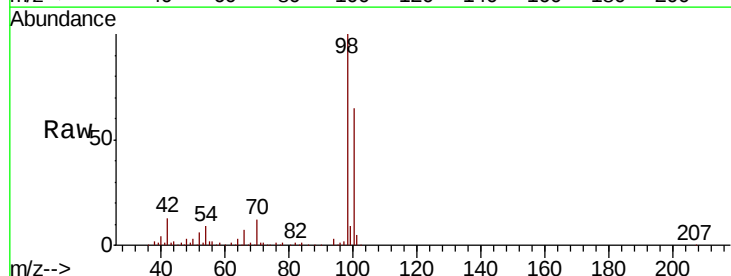
Instrument :
MSVOA_N
ClientSampleId :
TP-31-30-COMP

Tot Ion: 41 Resp: 2484
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.465 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060941.D
Acq: 14 Apr 2020 18:08

Tgt Ion: 98 Resp: 310527
Ion Ratio Lower Upper
98 100
100 65.3 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 2.579 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

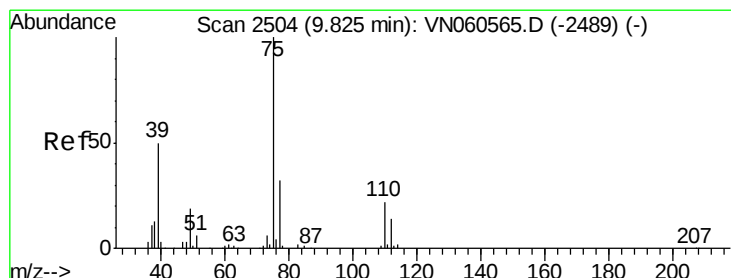
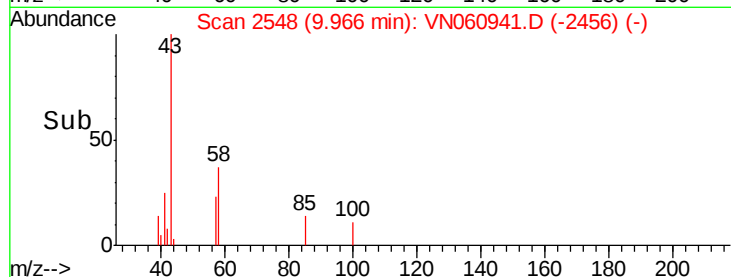
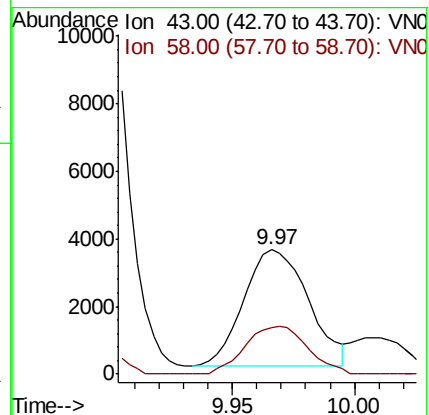
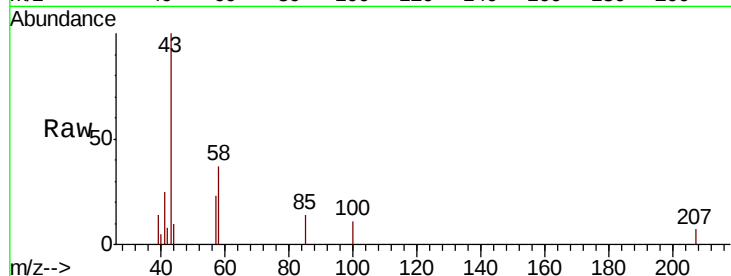
TP-31-30-COMP

Tot Ion: 43 Resp: 6309

Ion Ratio Lower Upper

43 100

58 40.0 30.8 46.2



#54

cis-1,3-Dichloropropene

Concen: 6.433 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

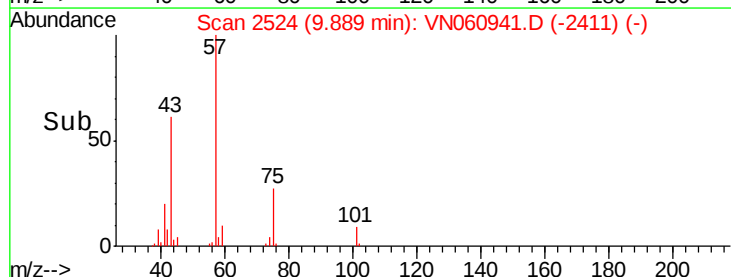
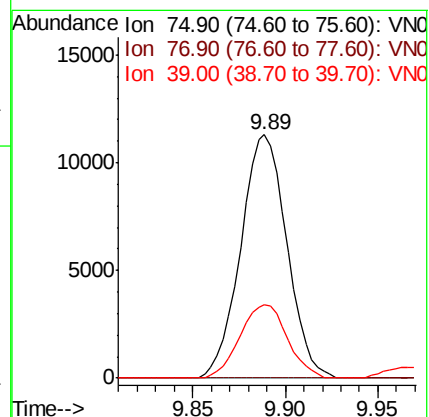
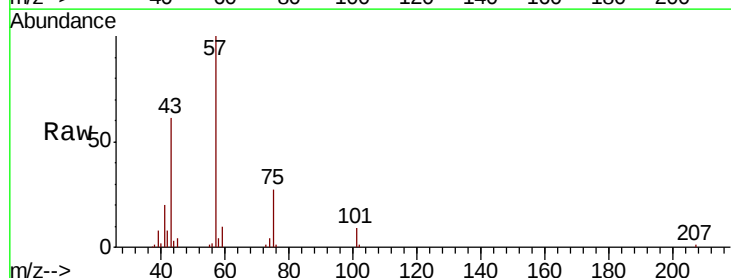
Tgt Ion: 75 Resp: 19571

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 30.1 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 1.006 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

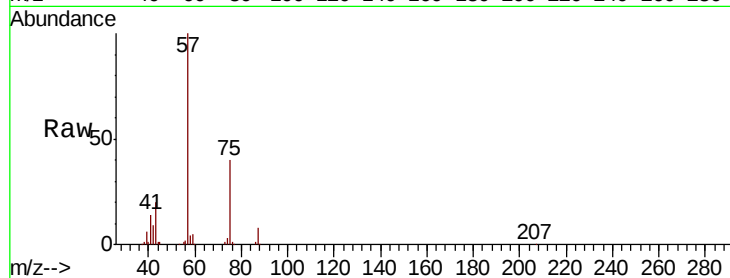
TP-31-30-COMP

Tot Ion: 76 Resp: 2953

Ion Ratio Lower Upper

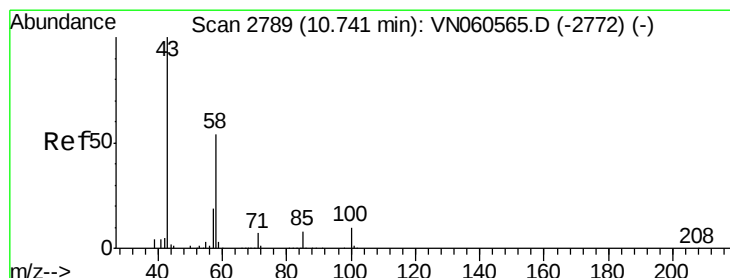
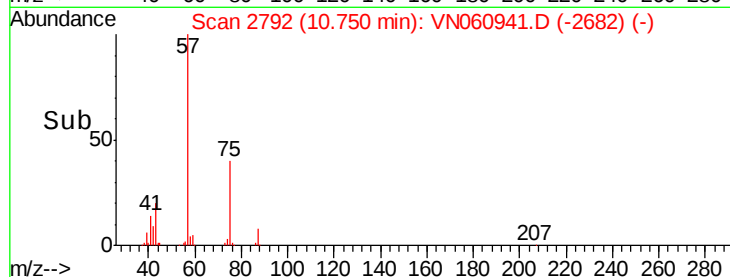
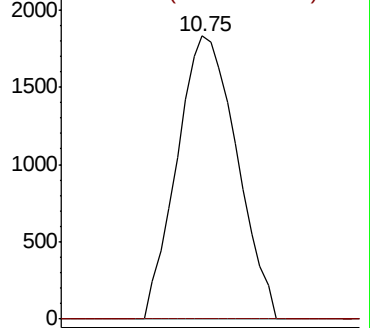
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 26.473 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060941.D

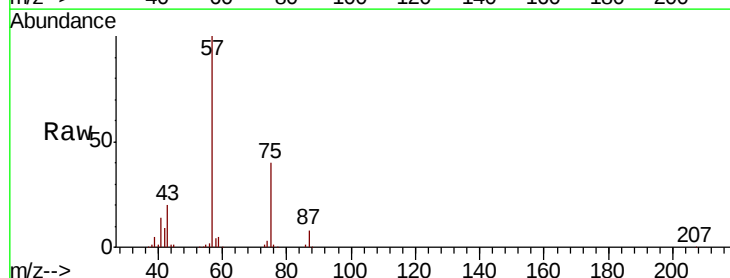
Acq: 14 Apr 2020 18:08

Tgt Ion: 43 Resp: 46651

Ion Ratio Lower Upper

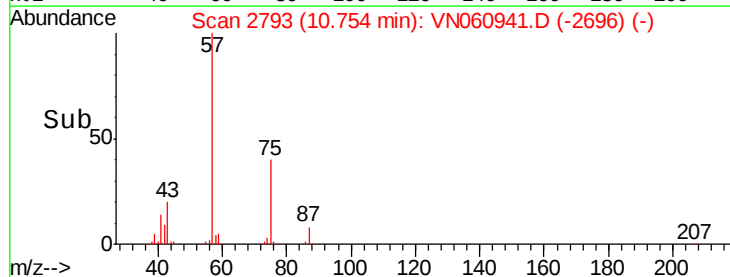
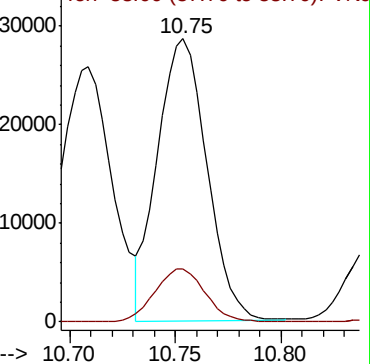
43 100

58 19.1 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 52.304 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

TP-31-30-COMP

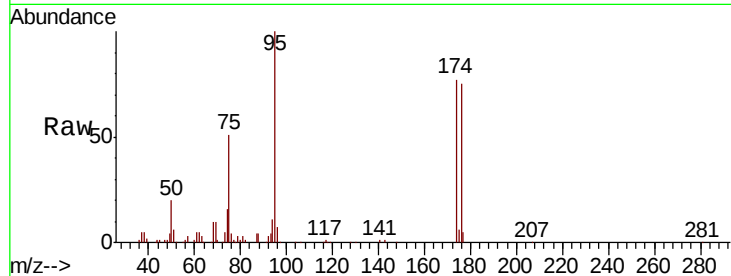
Tot Ion: 95 Resp: 117951

Ion Ratio Lower Upper

95 100

174 76.3 0.0 157.6

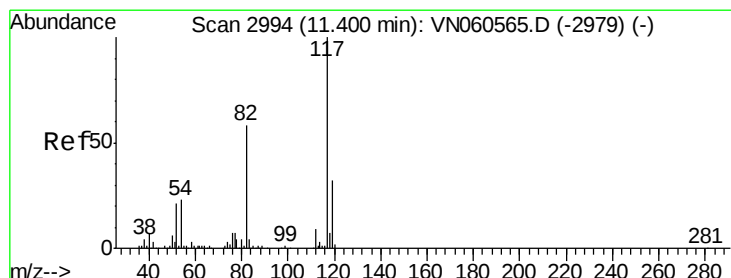
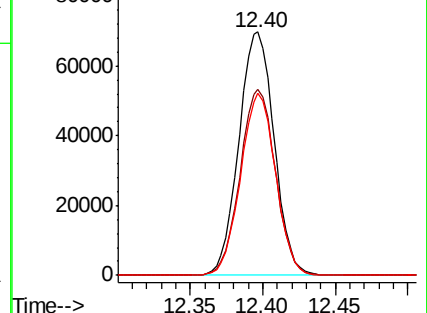
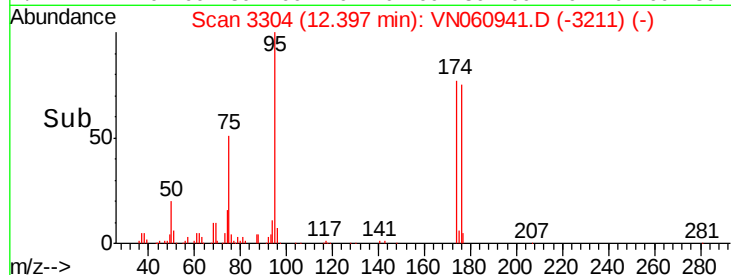
176 74.0 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060941.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060941.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060941.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

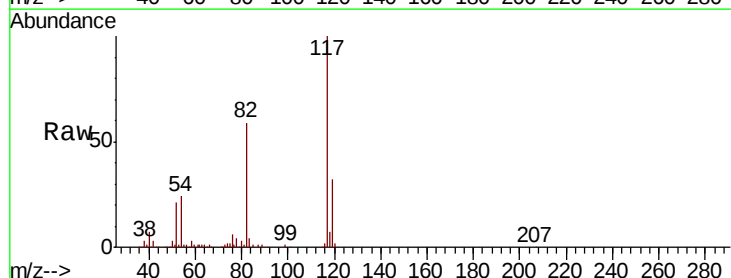
Tgt Ion: 117 Resp: 237415

Ion Ratio Lower Upper

117 100

82 58.7 46.7 70.1

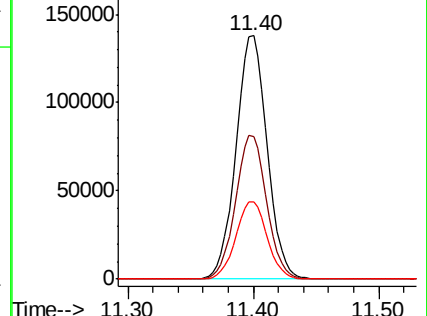
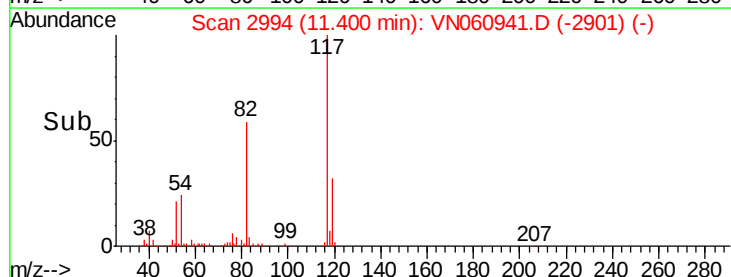
119 31.9 25.5 38.3

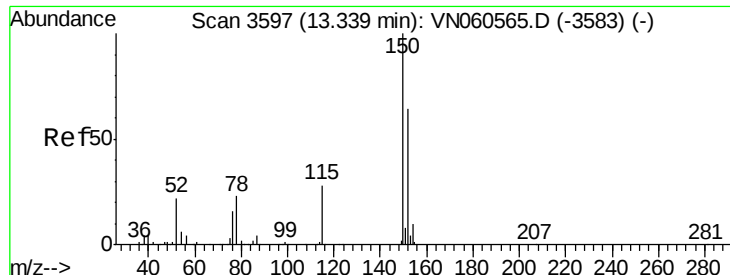


Abundance Ion 116.90 (116.60 to 117.60): VN060941.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060941.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060941.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

Instrument :

MSVOA_N

ClientSampled :

TP-31-30-COMP

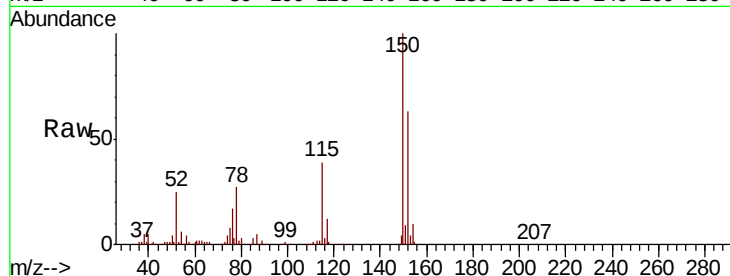
Tot Ion:152 Resp: 106817

Ion Ratio Lower Upper

152 100

115 61.3 30.2 90.6

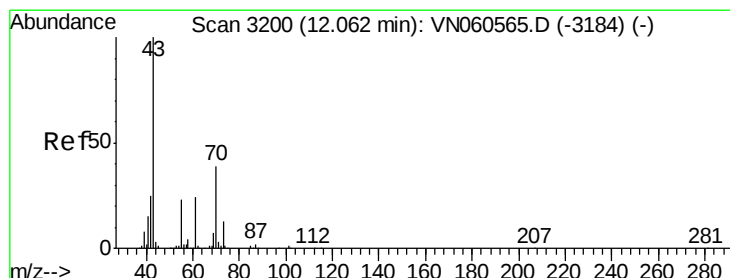
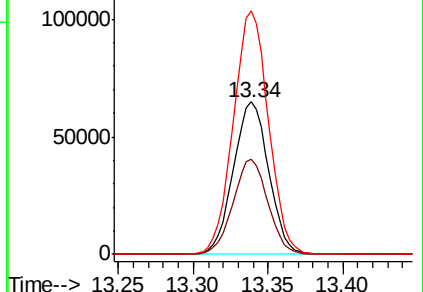
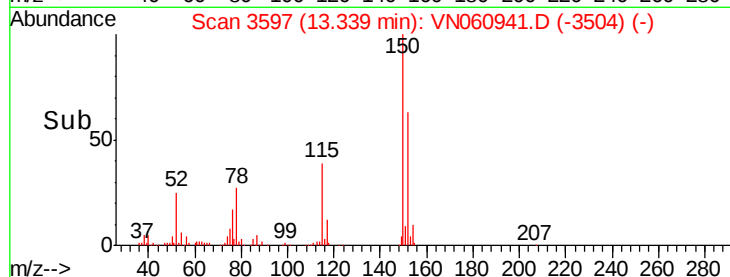
150 158.9 0.0 350.2



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-ethyl acetate

Concen: 0.754 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

Tgt Ion: 43 Resp: 2793

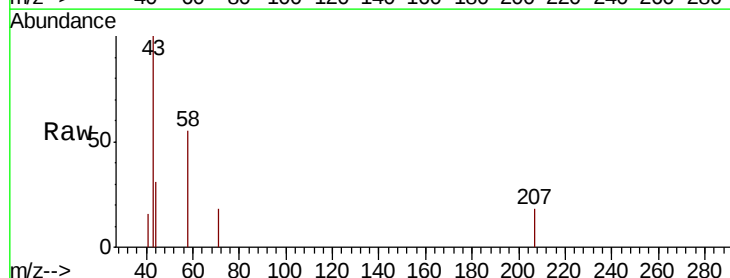
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

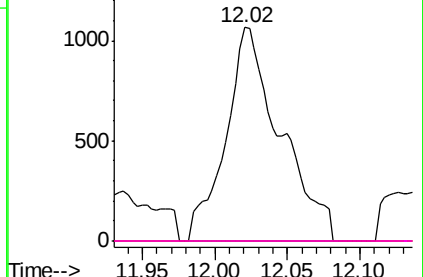
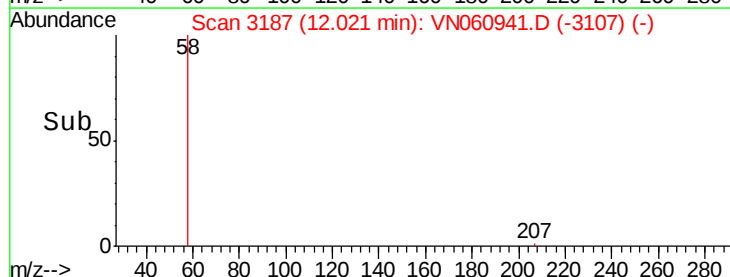


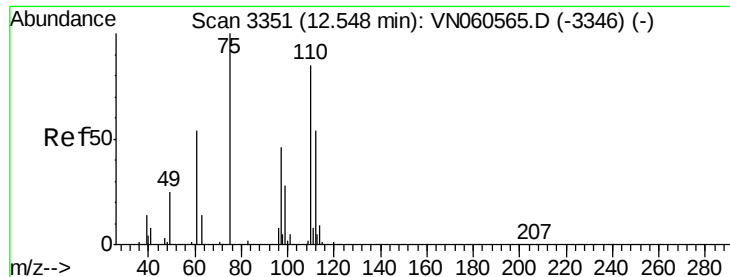
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 26.106 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

Instrument :

MSVOA_N

ClientSampleId :

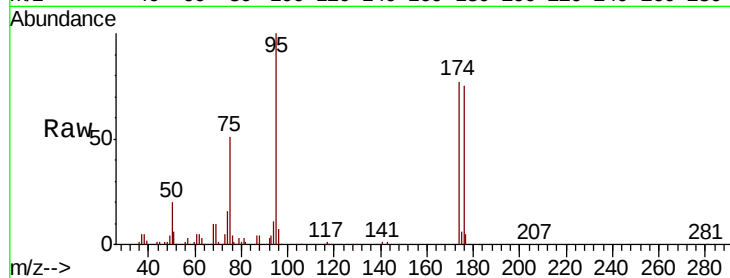
TP-31-30-COMP

Tot Ion: 75 Resp: 60171

Ion Ratio Lower Upper

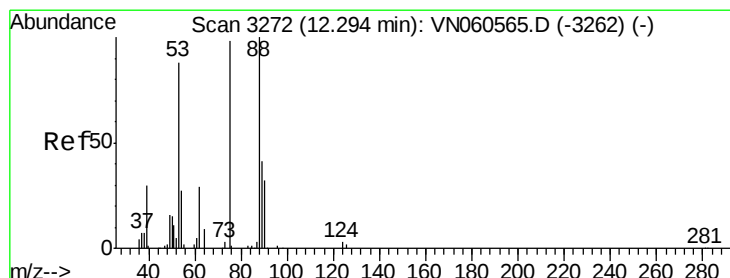
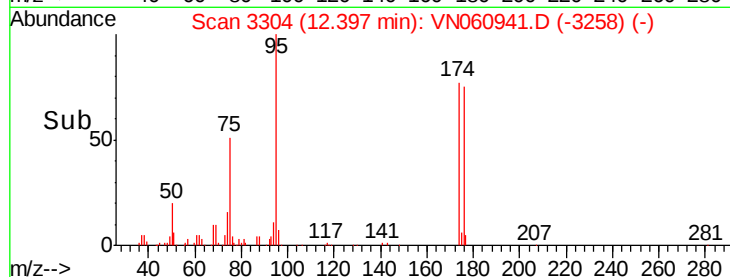
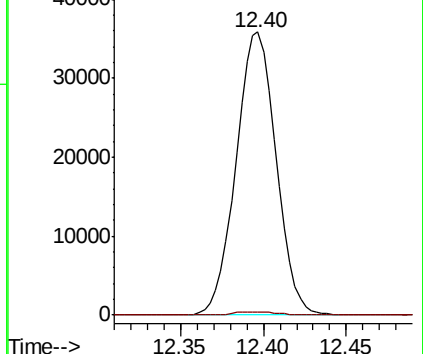
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 67.047 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060941.D

Acq: 14 Apr 2020 18:08

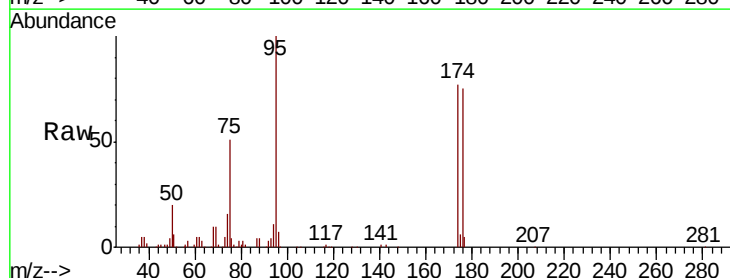
Tgt Ion: 75 Resp: 60171

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

