

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030620\
 Data File : VN060376.D
 Acq On : 6 Mar 2020 13:35
 Operator : JC/MD
 Sample : L1828-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 07 00:55:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	193278	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	316886	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	287760	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	125853	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	122671	49.47	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.57	113	88790	60.37	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.08	98	387799	52.09	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	138158	48.96	ug/l	0.00
Spiked Amount						

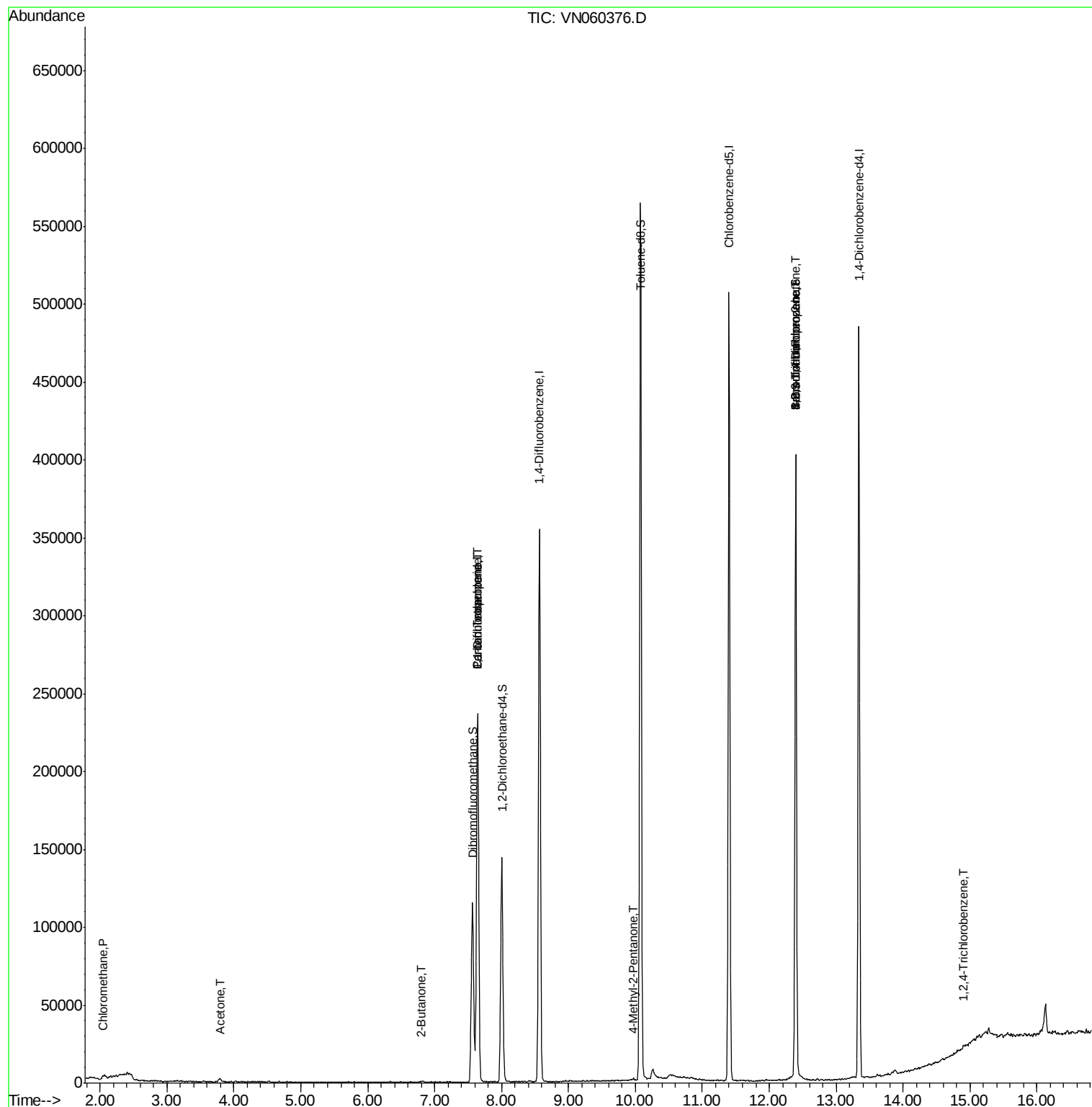
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	821	0.266	ug/l	98
16) Acetone	3.79	43	4234	5.287	ug/l	94
17) Carbon Disulfide	4.03	76	394	Below Cal	#	75
25) 2-Butanone	6.81	43	385	0.298	ug/l #	49
31) Cyclohexane	7.64	56	4280	Below Cal	#	2
36) 1,1-Dichloropropene	7.64	75	15388	5.095	ug/l #	49
38) Carbon Tetrachloride	7.64	117	18795	6.392	ug/l #	16
51) 4-Methyl-2-Pentanone	9.97	43	741	0.261	ug/l #	66
71) Bromoform	12.39	173	689	0.445	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	70831	25.652	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	70831	70.812	ug/l #	8
87) 1,3-Dichlorobenzene	13.28	146	320	Below Cal	#	40
88) 1,4-Dichlorobenzene	13.36	146	528	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	554	0.306	ug/l #	71
94) Hexachlorobutadiene	15.01	225	61	Below Cal	#	18
95) Naphthalene	15.13	128	1540	Below Cal	#	87

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

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Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 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: VN060376.D

Acq: 6 Mar 2020 13:35

Instrument :

MSVOA_N

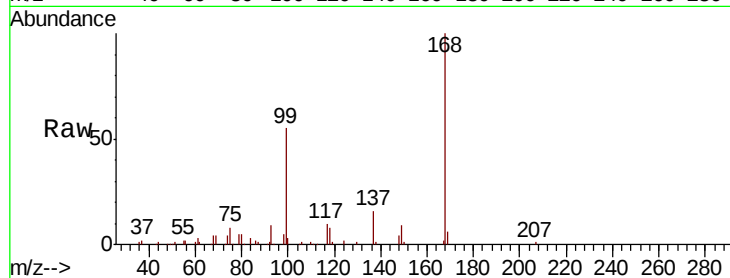
ClientSampled :

Tot Ion:168 Resp: 193278

Ion Ratio Lower Upper

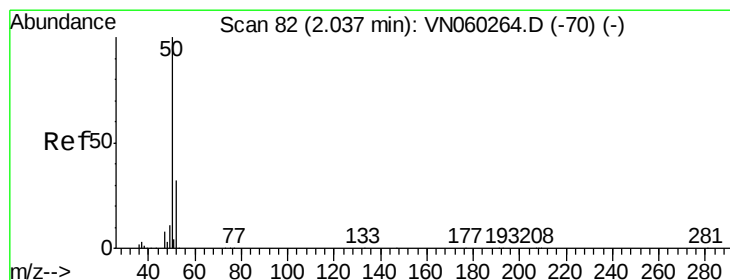
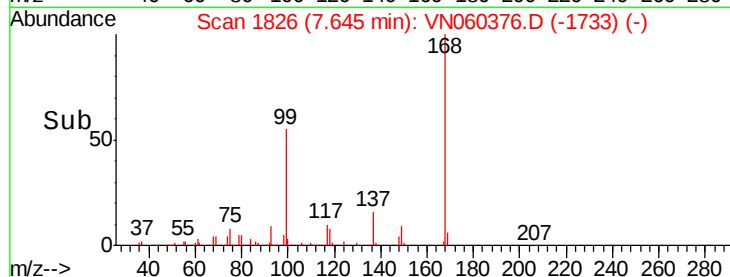
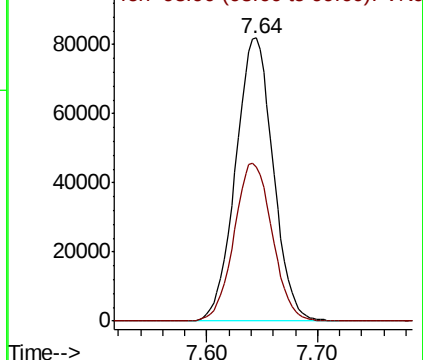
168 100

99 54.6 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.266 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060376.D

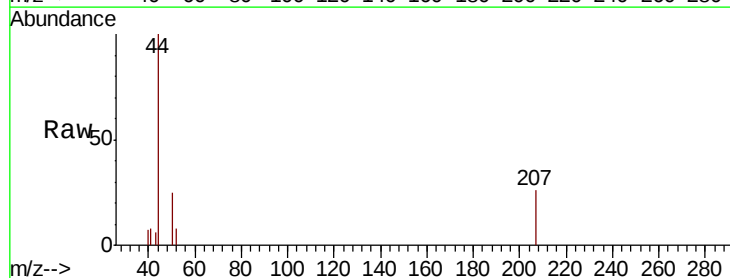
Acq: 6 Mar 2020 13:35

Tgt Ion: 50 Resp: 821

Ion Ratio Lower Upper

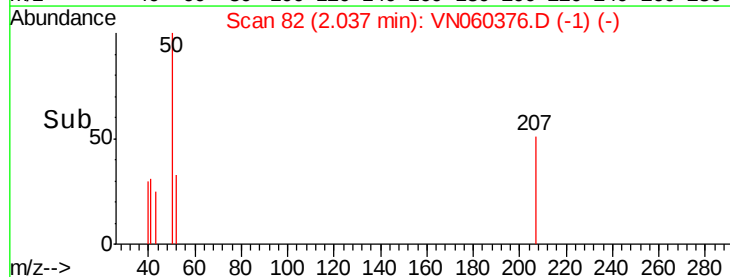
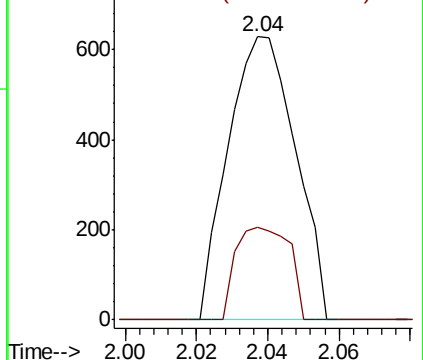
50 100

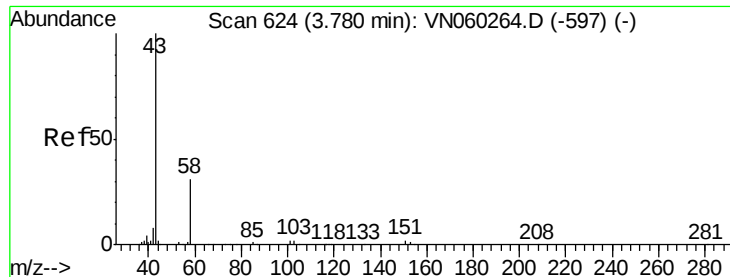
52 33.0 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#16

Acetone

Concen: 5.287 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060376.D

Acq: 6 Mar 2020 13:35

Instrument :

MSVOA_N

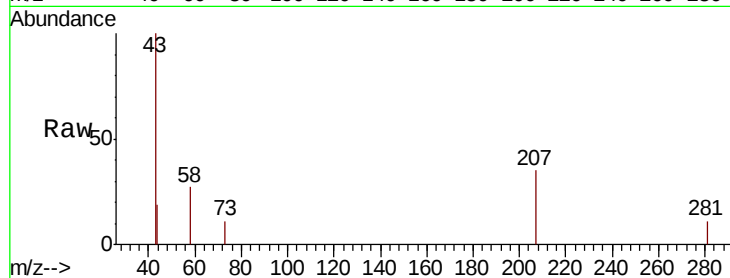
ClientSampled :

Tot Ion: 43 Resp: 4234

Ion Ratio Lower Upper

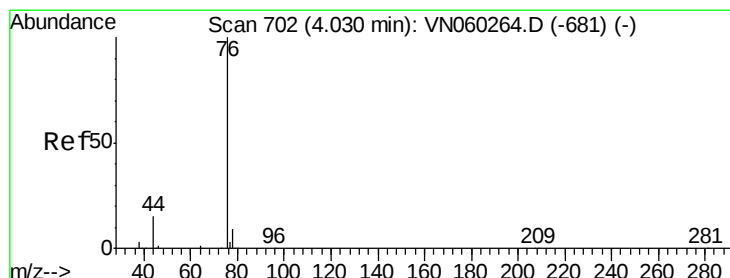
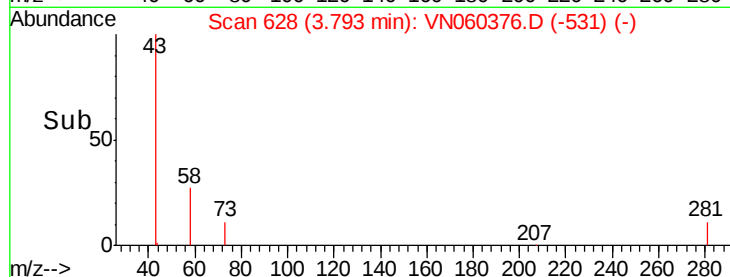
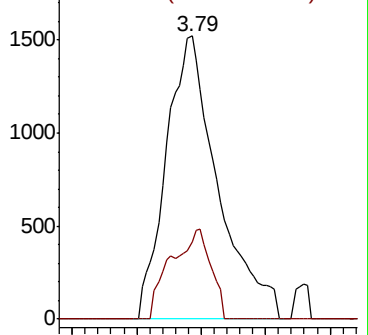
43 100

58 27.2 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060376.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060376.D (-597) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN060376.D

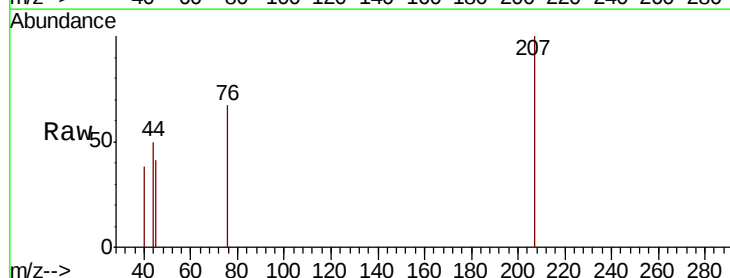
Acq: 6 Mar 2020 13:35

Tgt Ion: 76 Resp: 394

Ion Ratio Lower Upper

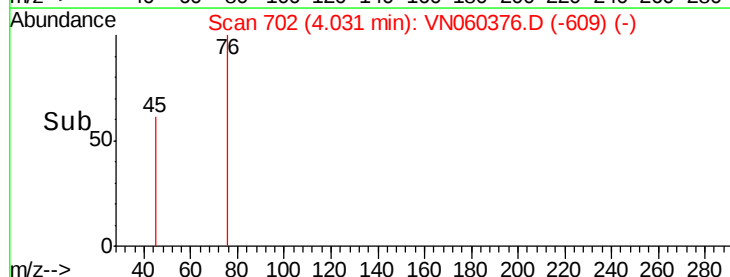
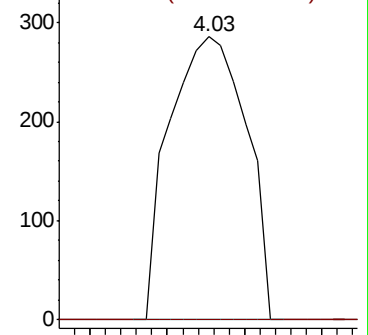
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060376.D (-609) (-)

Ion 77.90 (77.60 to 78.60): VN060376.D (-609) (-)

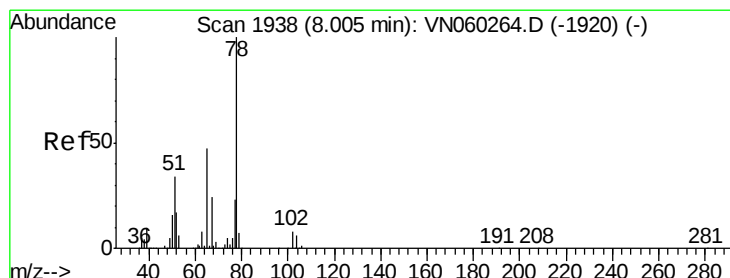
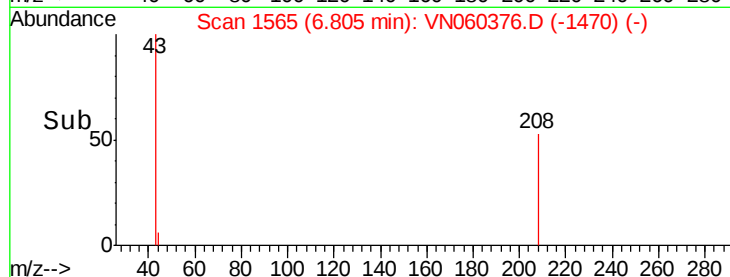
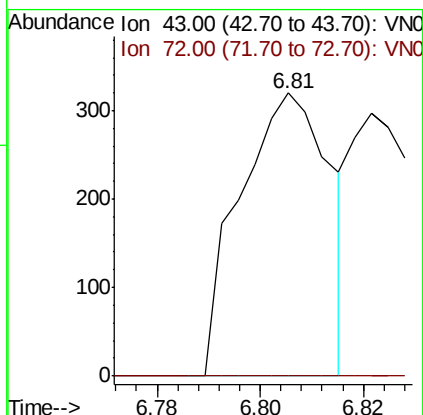
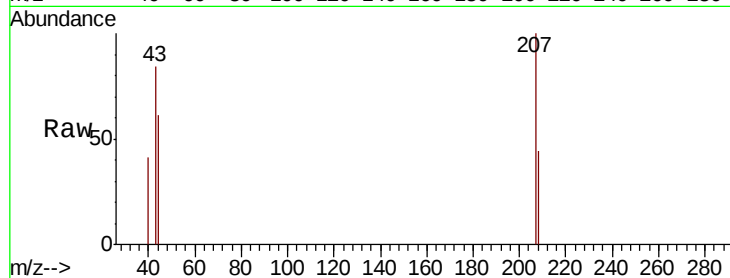




#25
 2-Butanone
 Concen: 0.298 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. 0.01 min
 Lab File: VN060376.D
 Acq: 6 Mar 2020 13:35

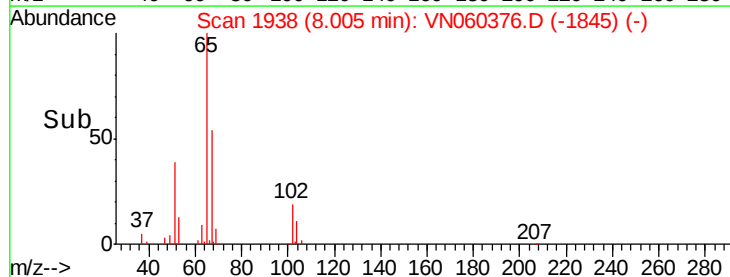
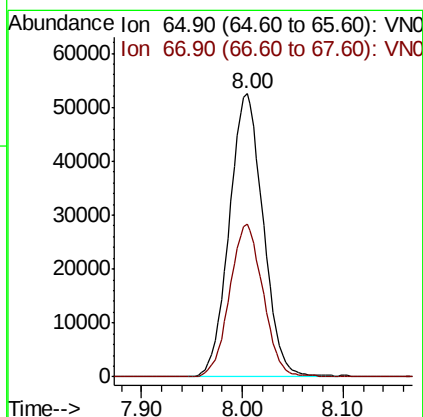
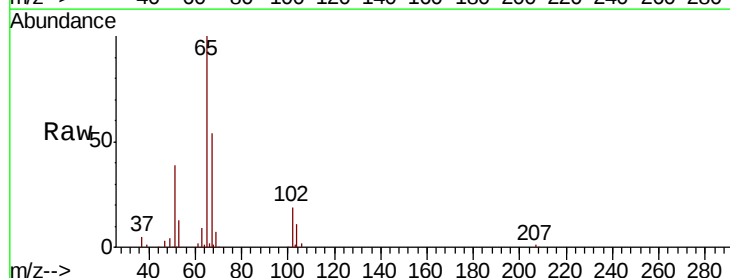
Instrument :
 MSVOA_N
 ClientSampled :

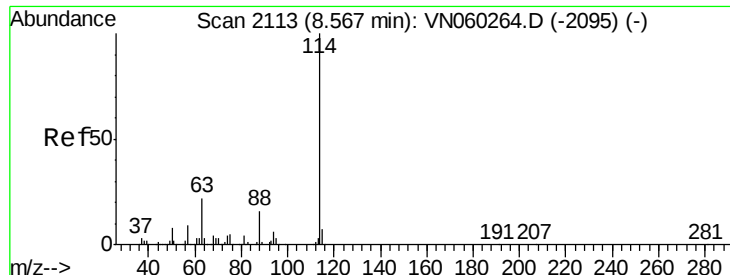
Tot Ion: 43 Resp: 385
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.9 31.3#



#33
 1,2-Dichloroethane-d4
 Concen: 49.468 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060376.D
 Acq: 6 Mar 2020 13:35

Tgt Ion: 65 Resp: 122671
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060376.D

Acq: 6 Mar 2020 13:35

Instrument :

MSVOA_N

ClientSampleId :

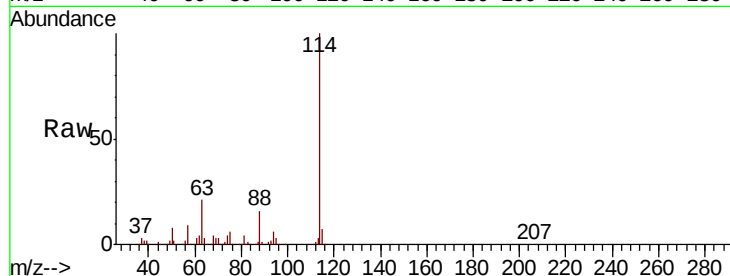
Tot Ion:114 Resp: 316886

Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.2

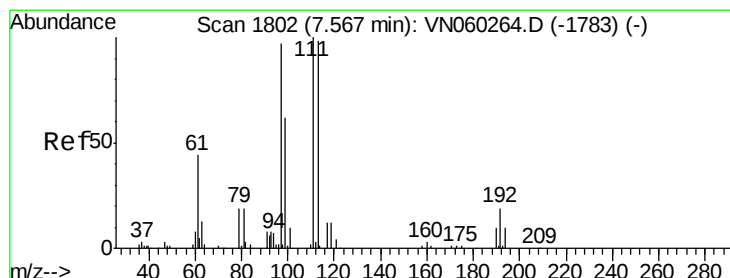
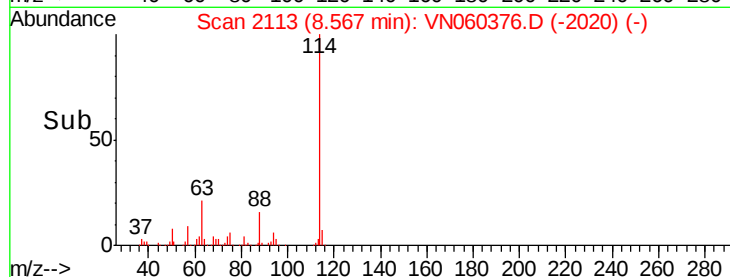
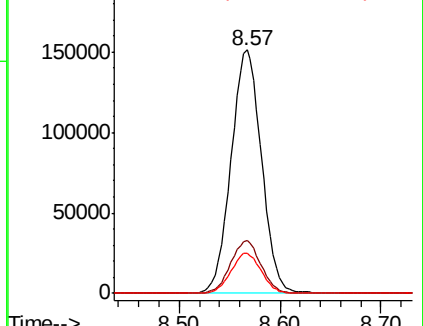
88 16.3 0.0 31.6



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: 60.365 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060376.D

Acq: 6 Mar 2020 13:35

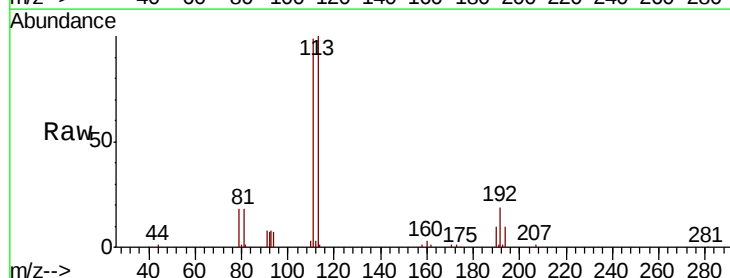
Tgt Ion:113 Resp: 88790

Ion Ratio Lower Upper

113 100

111 102.7 82.4 123.6

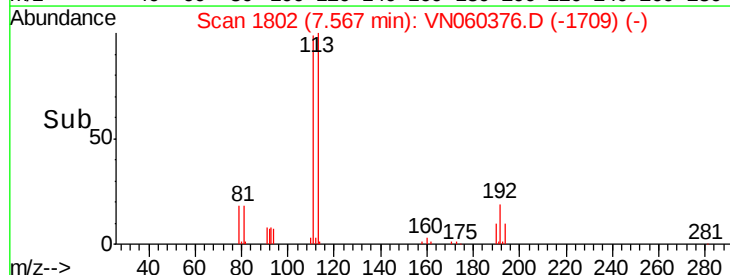
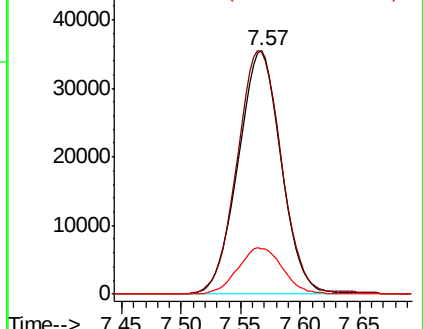
192 19.8 16.2 24.2



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

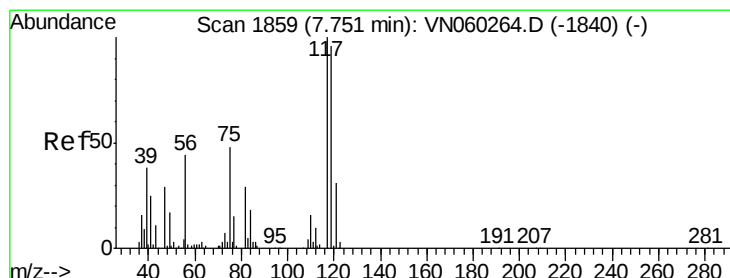
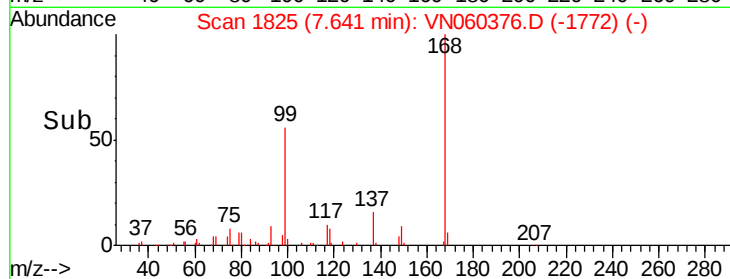
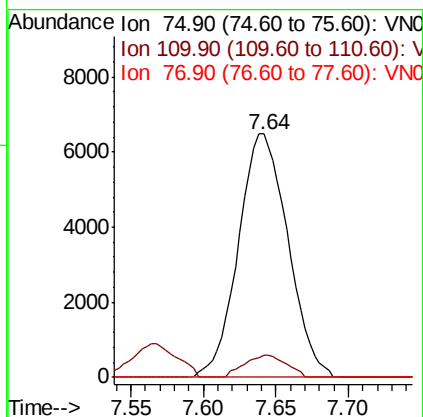
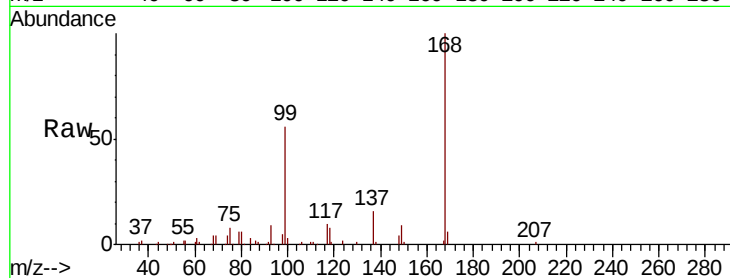




#36
 1,1-Dichloropropene
 Concen: 5.095 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060376.D
 Acq: 6 Mar 2020 13:35

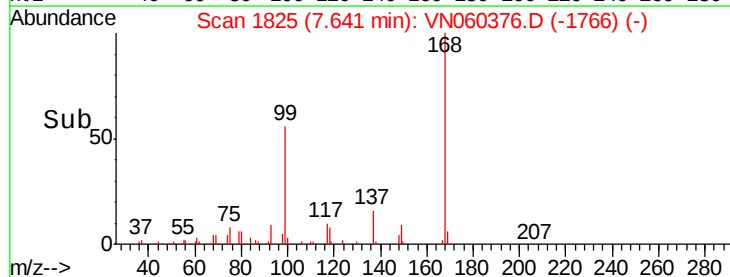
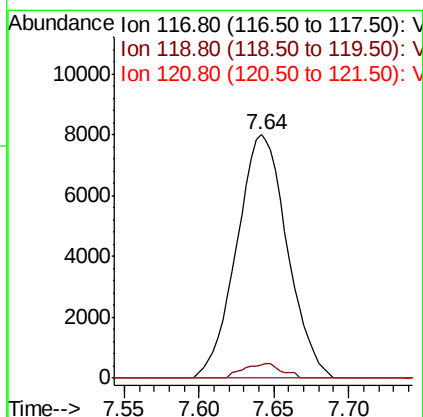
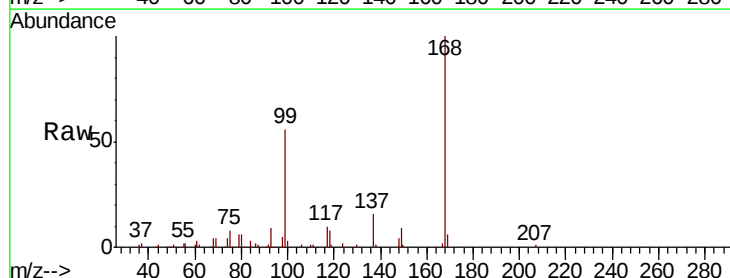
Instrument :
 MSVOA_N
 ClientSampleId :

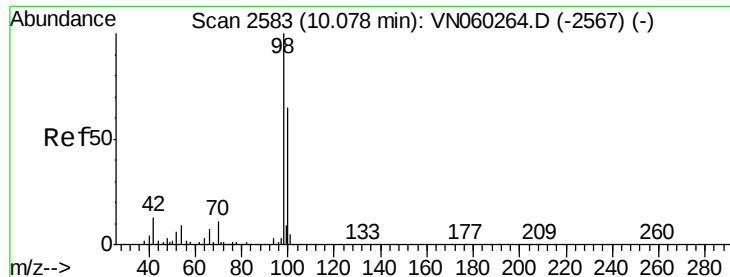
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.3	52.0#
77	0.0	24.2	36.2#



#38
 Carbon Tetrachloride
 Concen: 6.392 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060376.D
 Acq: 6 Mar 2020 13:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.7	115.1#
121	0.0	24.5	36.7#





#50

Toluene-d8

Concen: 52.093 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060376.D

Acq: 6 Mar 2020 13:35

Instrument :

MSVOA_N

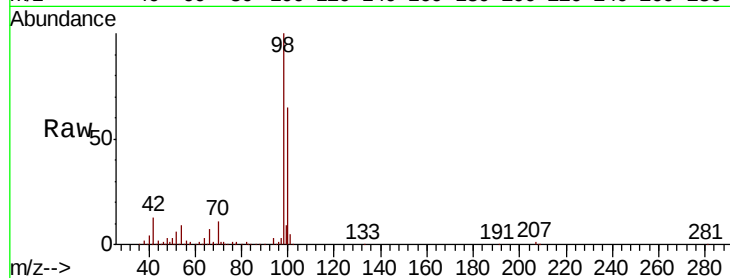
ClientSampled :

Tot Ion: 98 Resp: 387799

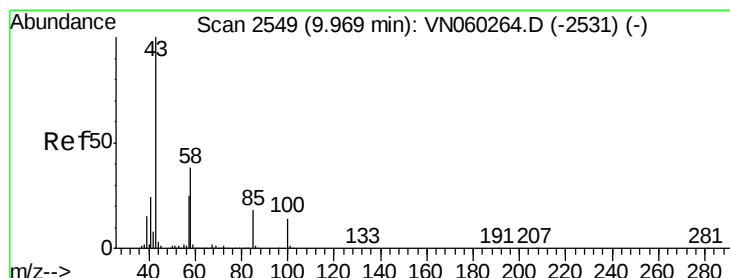
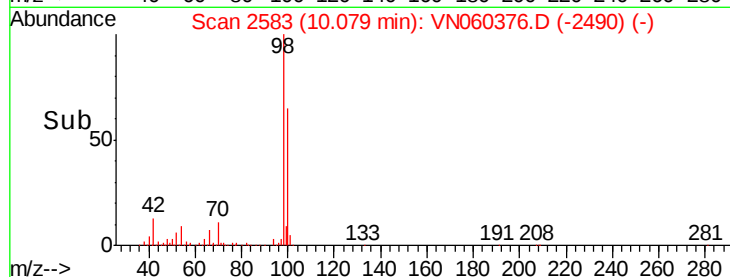
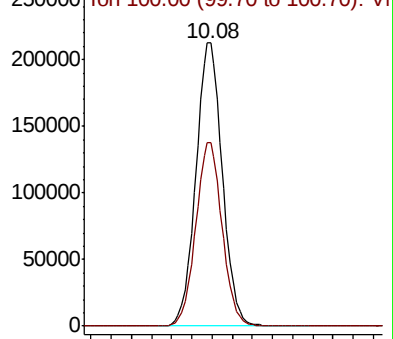
Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060264.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.261 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060376.D

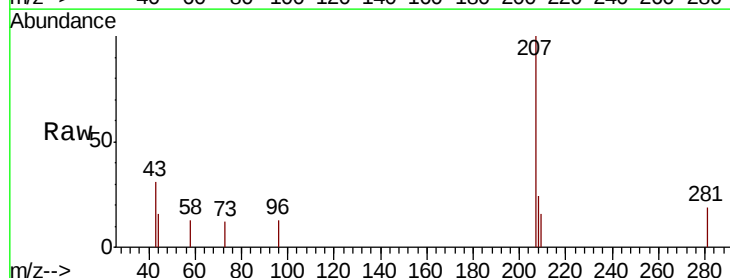
Acq: 6 Mar 2020 13:35

Tgt Ion: 43 Resp: 741

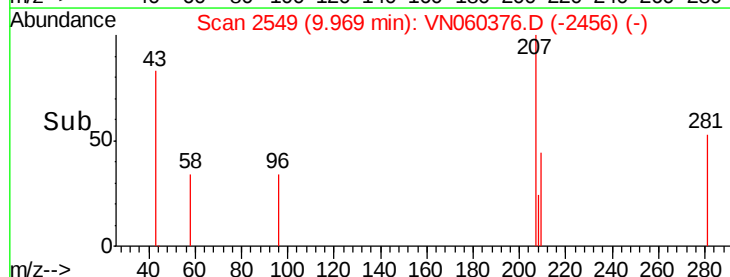
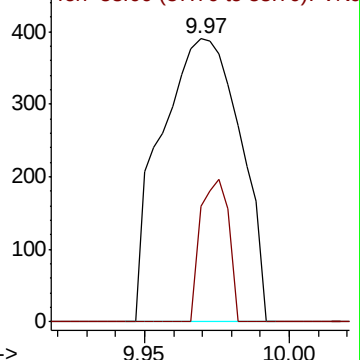
Ion Ratio Lower Upper

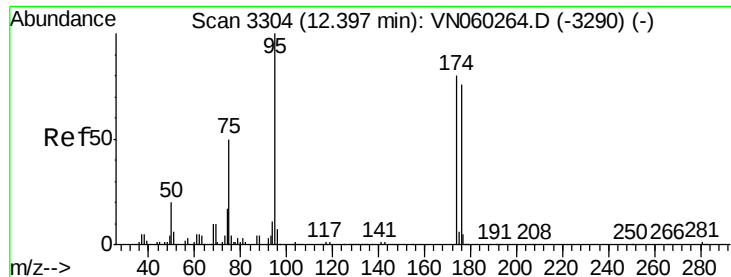
43 100

58 17.9 30.9 46.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)





#62

4-Bromofluorobenzene

Concen: 48.958 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060376.D

Acq: 6 Mar 2020 13:35

Instrument :

MSVOA_N

ClientSampled :

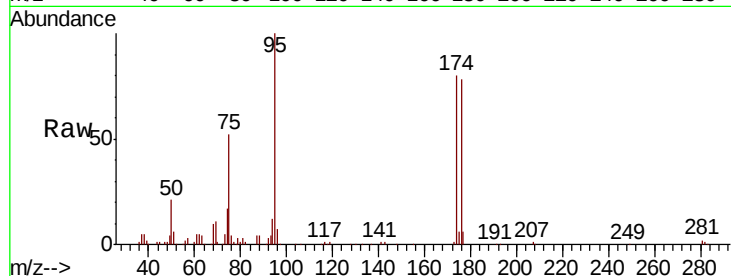
Tot Ion: 95 Resp: 138158

Ion Ratio Lower Upper

95 100

174 79.5 0.0 159.2

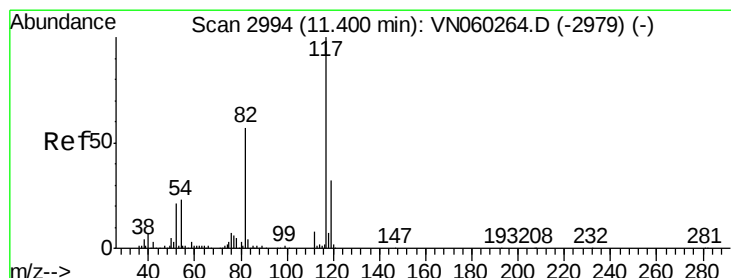
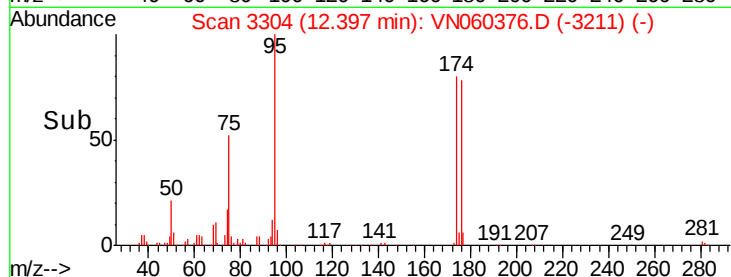
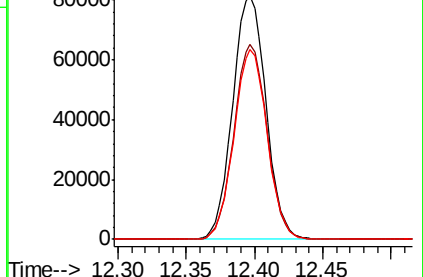
176 77.4 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060376.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060376.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060376.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060376.D

Acq: 6 Mar 2020 13:35

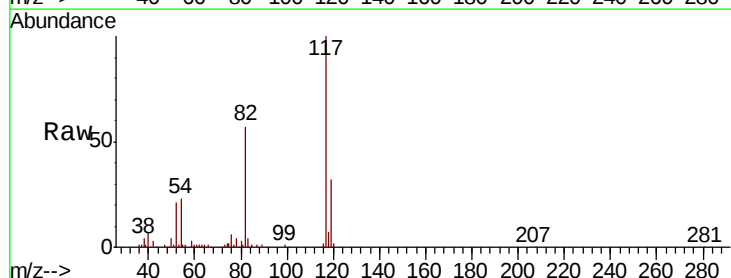
Tgt Ion: 117 Resp: 287760

Ion Ratio Lower Upper

117 100

82 57.0 45.8 68.6

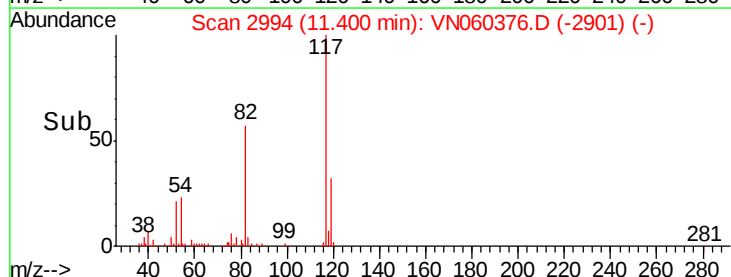
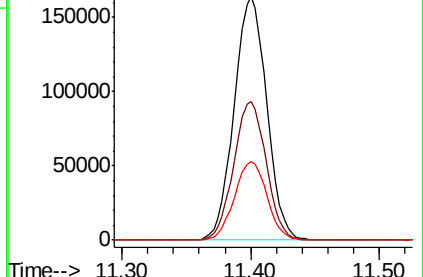
119 32.4 25.8 38.8

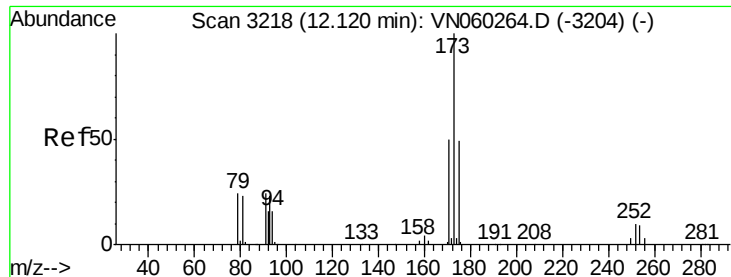


Abundance Ion 116.90 (116.60 to 117.60): VN060376.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060376.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060376.D (-2979) (-)





#71

Bromoform

Concen: 0.445 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN060376.D

Acq: 6 Mar 2020 13:35

Instrument :

MSVOA_N

ClientSampleId :

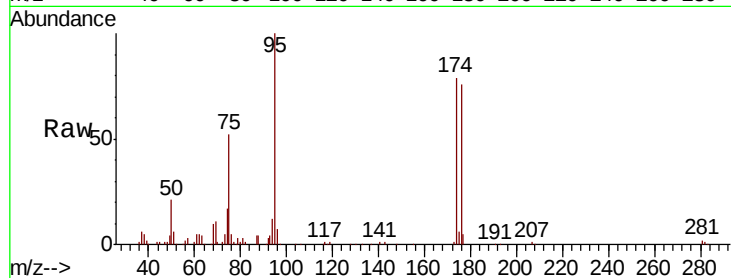
Tot Ion:173 Resp: 689

Ion Ratio Lower Upper

173 100

175 1024.1 24.1 72.2#

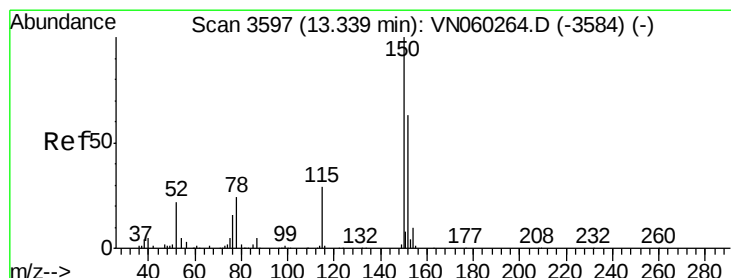
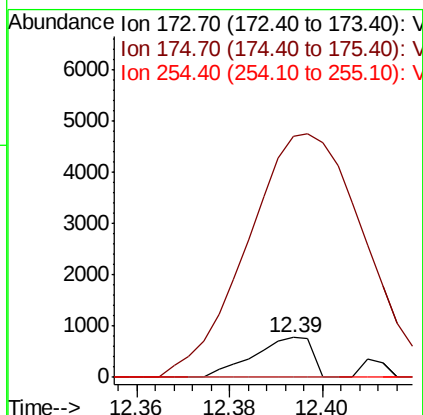
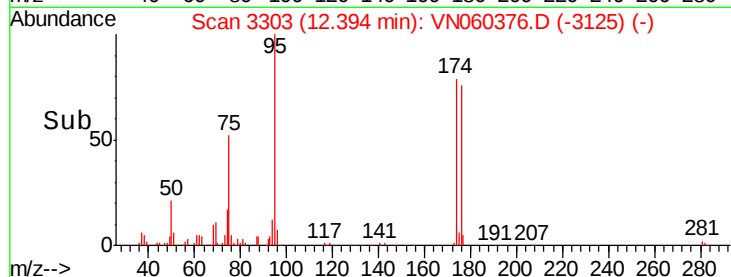
254 0.0 0.0 0.0



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: VN060376.D

Acq: 6 Mar 2020 13:35

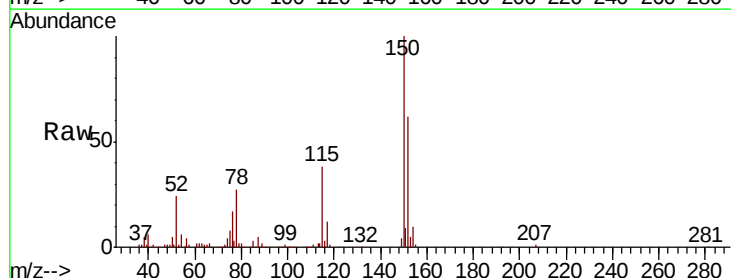
Tgt Ion:152 Resp: 125853

Ion Ratio Lower Upper

152 100

115 60.6 30.0 90.0

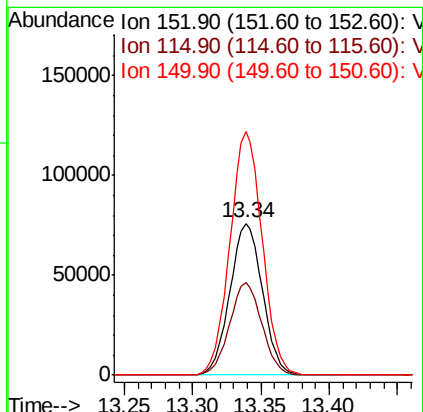
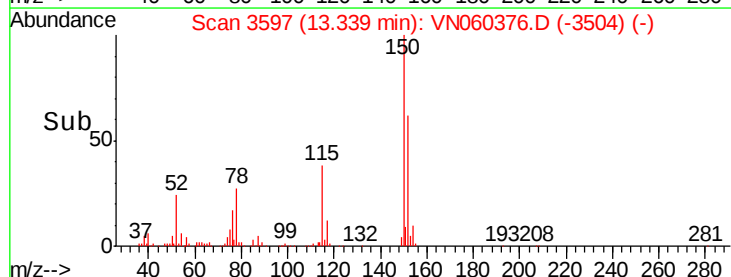
150 159.2 0.0 349.6

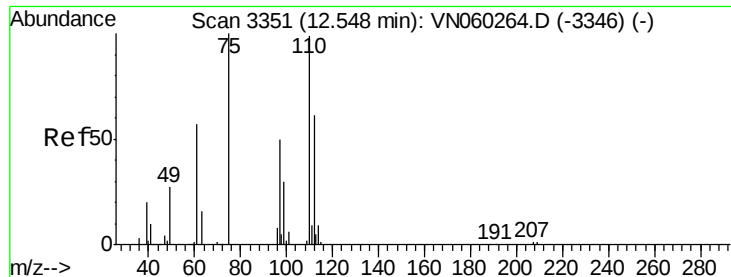


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.652 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060376.D

Acq: 6 Mar 2020 13:35

Instrument :

MSVOA_N

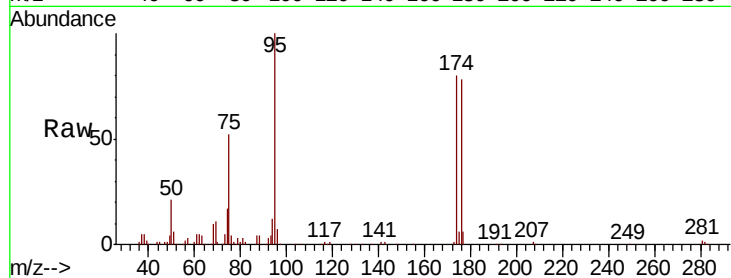
ClientSampleId :

Tot Ion: 75 Resp: 70831

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

40000

30000

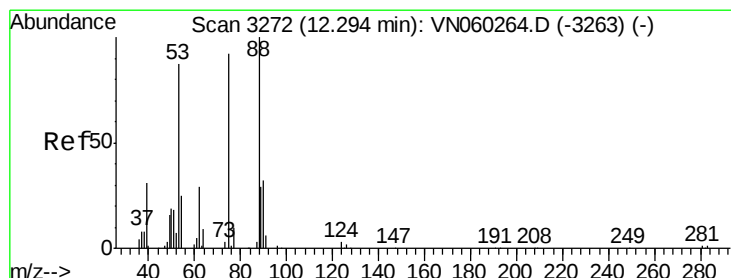
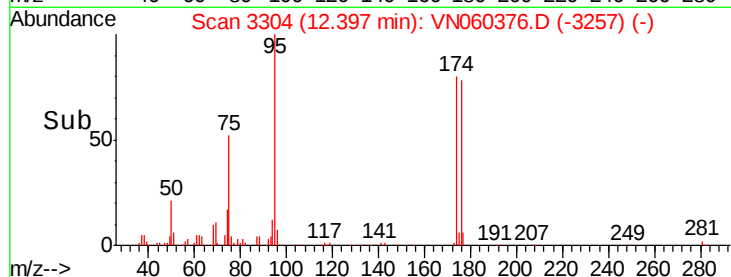
20000

10000

0

Time-->

12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 70.812 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060376.D

Acq: 6 Mar 2020 13:35

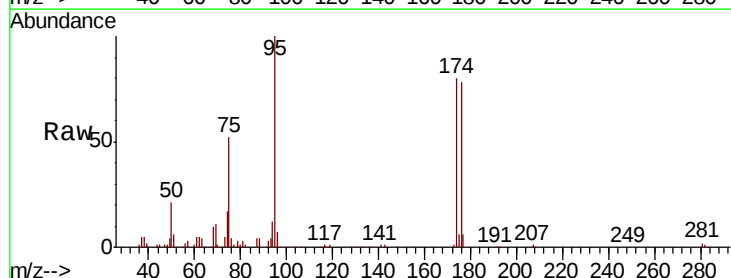
Tgt Ion: 75 Resp: 70831

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#



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

12.40

40000

30000

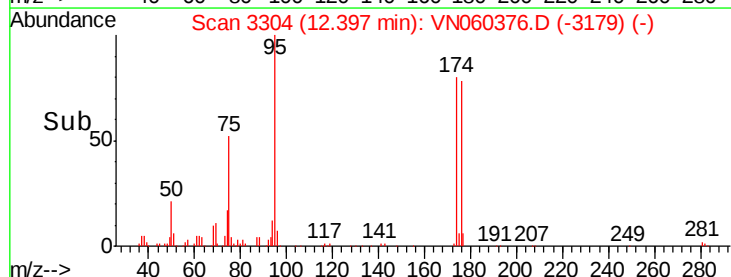
20000

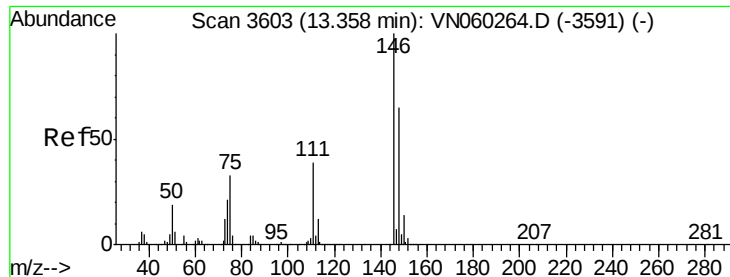
10000

0

Time-->

12.35 12.40 12.45

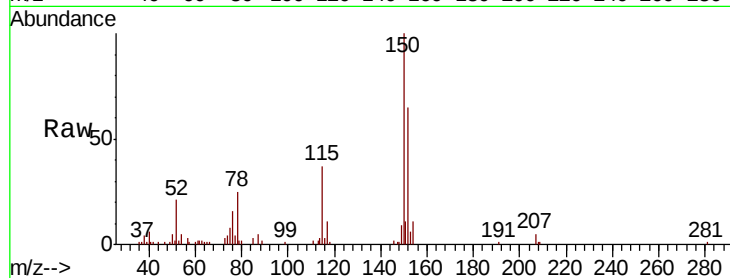




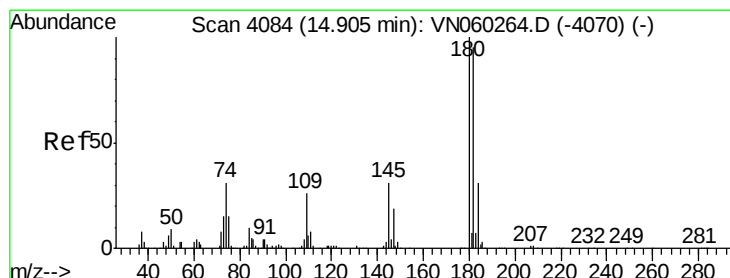
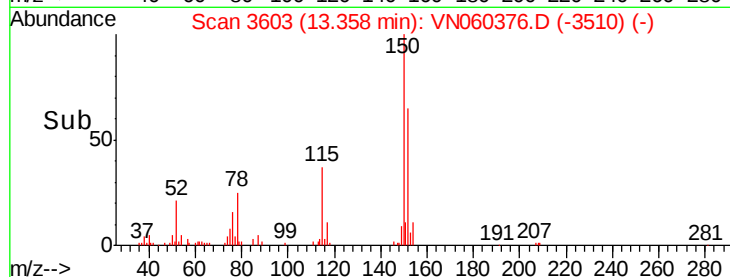
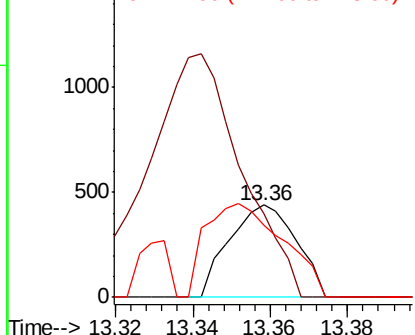
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.36 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN060376.D
 Acq: 6 Mar 2020 13:35

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:146 Resp: 528
 Ion Ratio Lower Upper
 146 100
 111 366.7 19.8 59.4#
 148 118.4 32.3 96.9#

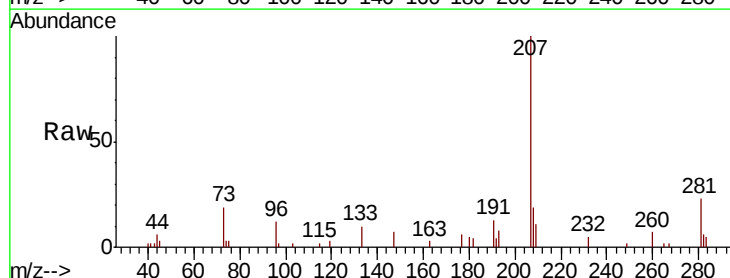


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

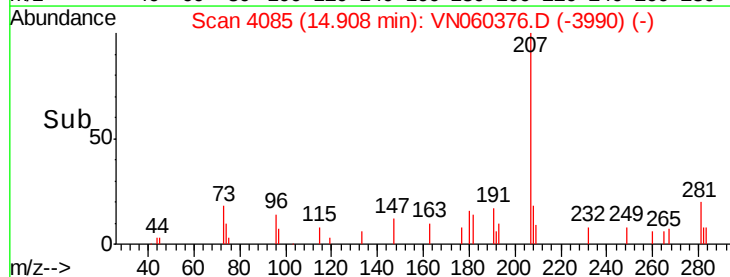
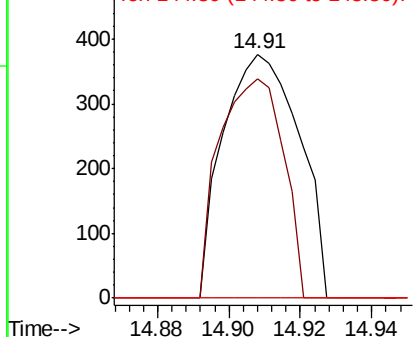


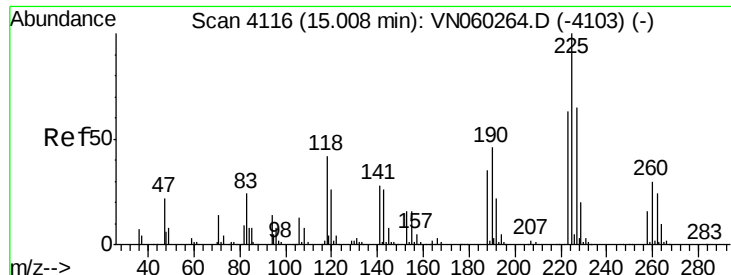
#93
 1,2,4-Trichlorobenzene
 Concen: 0.306 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN060376.D
 Acq: 6 Mar 2020 13:35

Tgt Ion:180 Resp: 554
 Ion Ratio Lower Upper
 180 100
 182 75.6 47.8 143.3
 145 0.0 15.4 46.1#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN060376.D

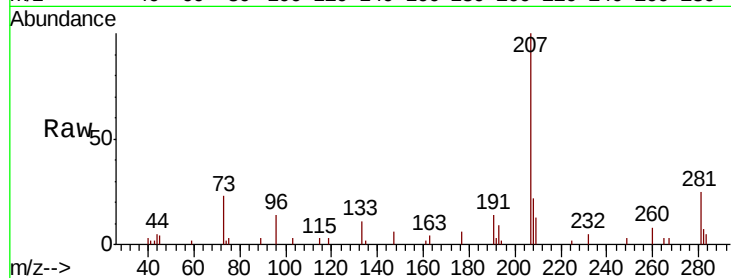
Acq: 6 Mar 2020 13:35

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	225	Resp:	61
Ion Ratio	Lower	Upper	
225	100		
223	0.0	31.3	93.9#
227	0.0	32.3	96.9#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

