

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030320\
 Data File : VN060328.D
 Acq On : 3 Mar 2020 14:41
 Operator : JC/MD
 Sample : PB127227ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 04 01:14:28 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	197698	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	320152	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	302033	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	140301	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	125709	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
35) Dibromofluoromethane	7.57	113	89604	60.30	ug/l	0.00
Spiked Amount			Recovery	=	120.60%	
50) Toluene-d8	10.08	98	393333	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	
62) 4-Bromofluorobenzene	12.40	95	146953	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	

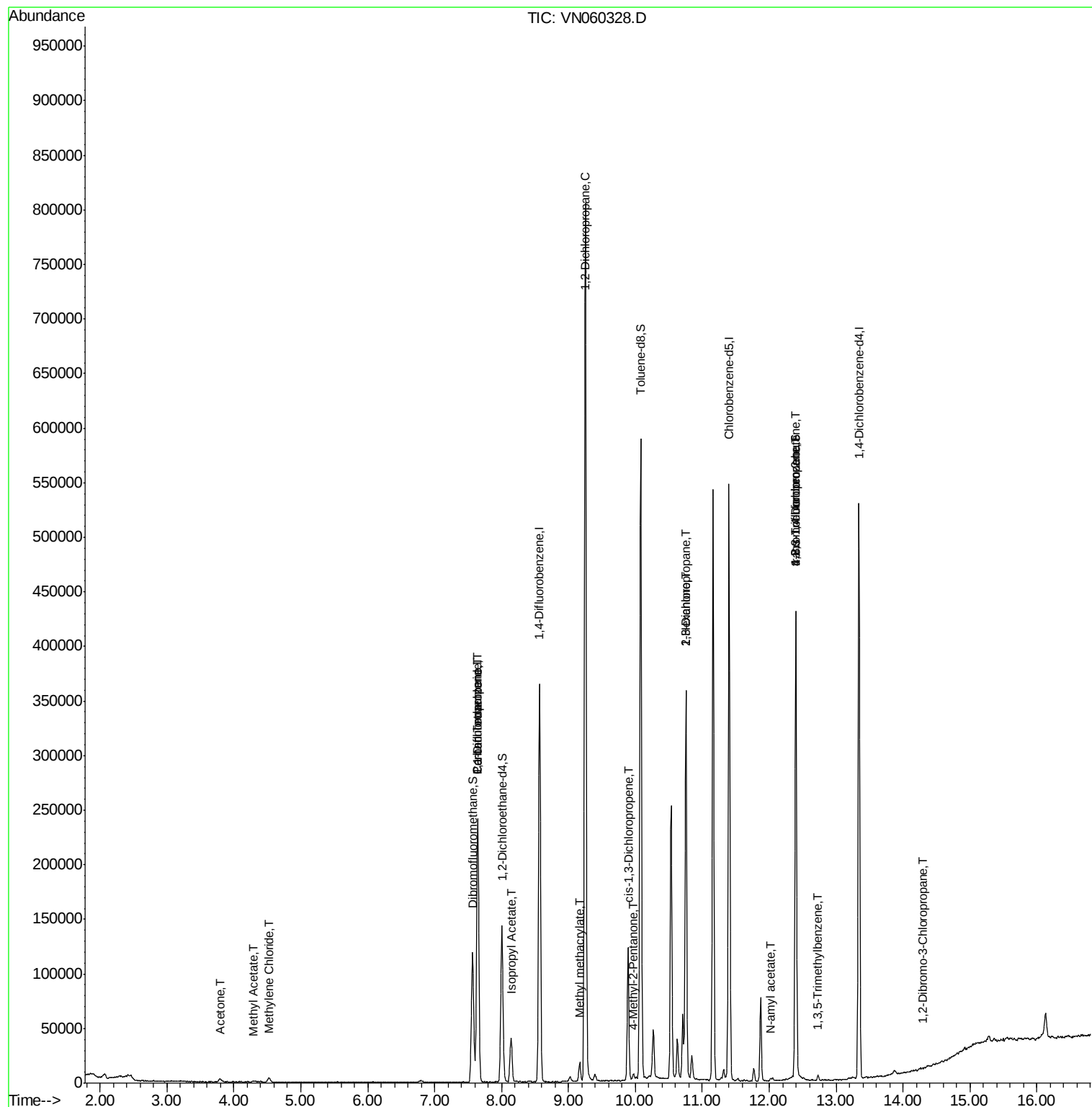
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.41	94	29	Below Cal	#	3
12) 1,1-Dichloroethene	3.74	96	30	Below Cal	#	1
16) Acetone	3.80	43	5028	6.138	ug/l	92
17) Carbon Disulfide	4.04	76	29	Below Cal	#	75
18) Methyl Acetate	4.29	43	570	0.209	ug/l	100
20) Methylene Chloride	4.52	84	2920	1.298	ug/l #	92
31) Cyclohexane	7.64	56	4300	Below Cal	#	12
36) 1,1-Dichloropropene	7.64	75	15095	4.947	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18716	6.300	ug/l #	16
43) Isopropyl Acetate	8.14	43	50146	9.914	ug/l #	89
45) 1,2-Dichloropropane	9.25	63	909	0.391	ug/l #	44
48) Methyl methacrylate	9.16	41	2435	1.056	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3810	1.329	ug/l	93
54) cis-1,3-Dichloropropene	9.89	75	21553	5.540	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	3759	1.027	ug/l #	42
59) 2-Hexanone	10.75	43	52661	25.010	ug/l #	52
74) N-amyl acetate	12.02	43	2194	0.483	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	76505	24.854	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2777	0.317	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	76505	68.608	ug/l #	8
87) 1,3-Dichlorobenzene	13.36	146	60	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.36	146	60	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	14.28	75	187	0.292	ug/l #	3
95) Naphthalene	15.14	128	461	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.32	180	136	Below Cal	#	12

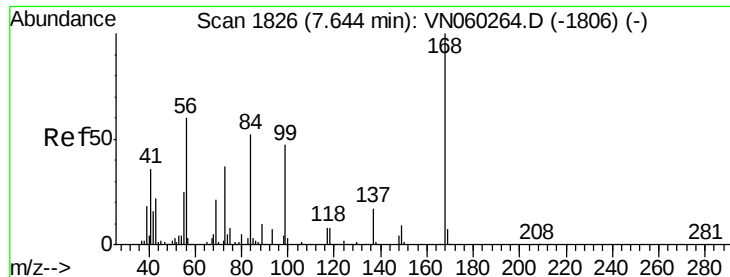
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 04 01:14:28 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
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: VN060328.D

Acq: 3 Mar 2020 14:41

Instrument :

MSVOA_N

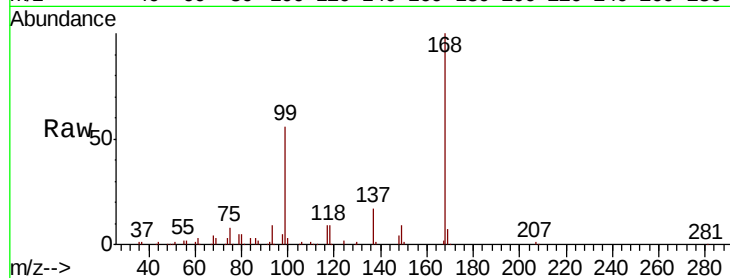
ClientSampled :

Tot Ion:168 Resp: 197698

Ion Ratio Lower Upper

168 100

99 55.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

80000

60000

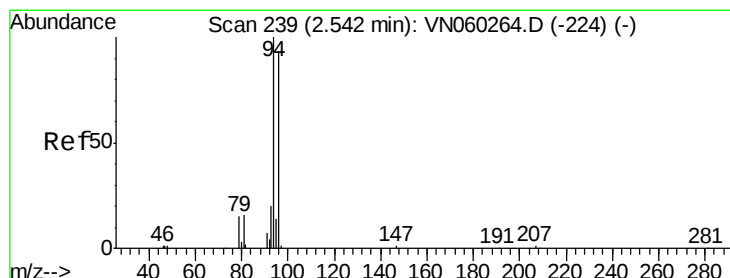
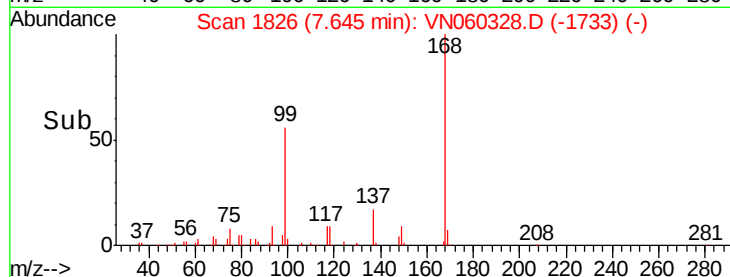
40000

20000

0

7.60 7.70

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.41 min Scan# 199

Delta R.T. -0.13 min

Lab File: VN060328.D

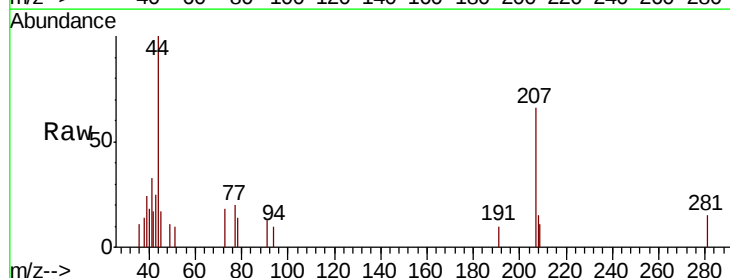
Acq: 3 Mar 2020 14:41

Tgt Ion: 94 Resp: 29

Ion Ratio Lower Upper

94 100

96 0.0 74.3 111.5#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.41

200

150

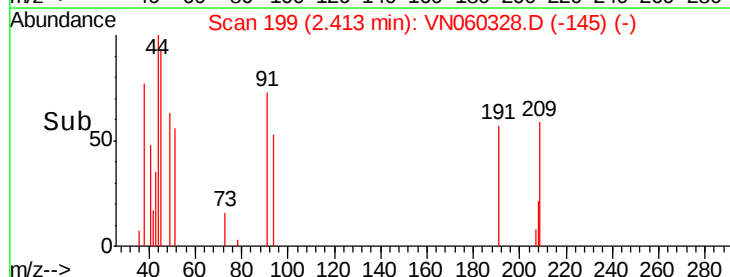
100

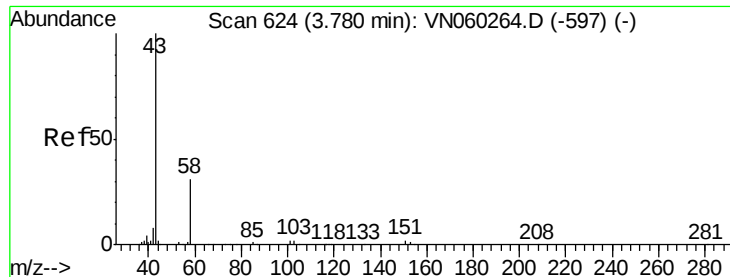
50

0

2.40 2.41 2.42 2.42

Time-->





#16

Acetone

Concen: 6.138 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN060328.D

Acq: 3 Mar 2020 14:41

Instrument :

MSVOA_N

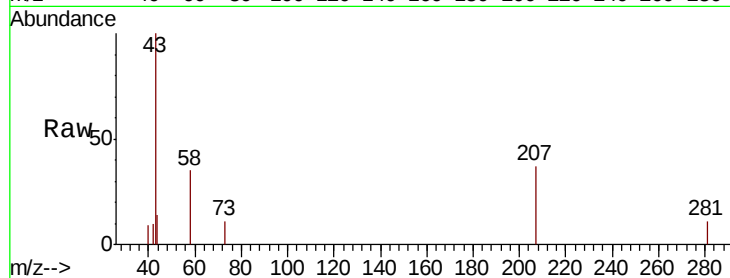
ClientSampled :

Tot Ion: 43 Resp: 5028

Ion Ratio Lower Upper

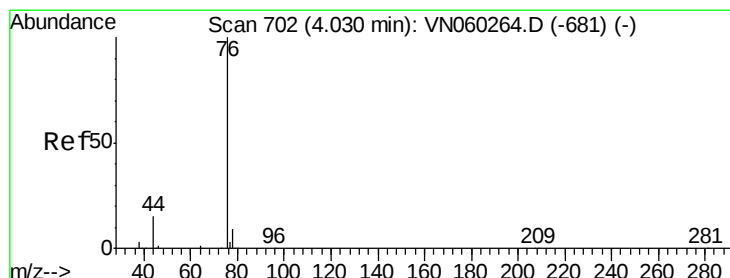
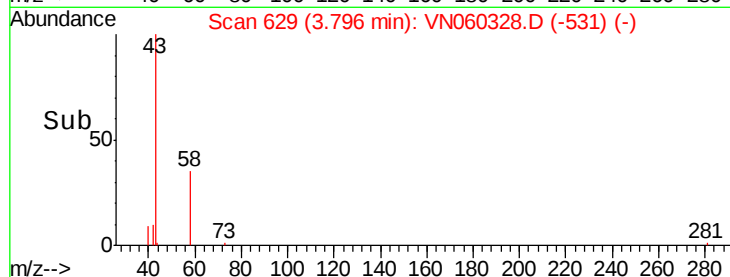
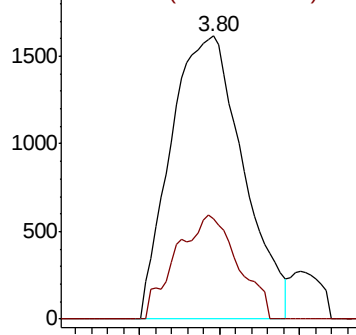
43 100

58 35.3 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060328.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060328.D (-597) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.04 min Scan# 705

Delta R.T. 0.01 min

Lab File: VN060328.D

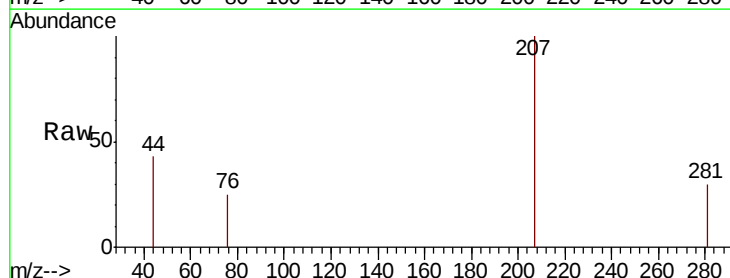
Acq: 3 Mar 2020 14:41

Tgt Ion: 76 Resp: 29

Ion Ratio Lower Upper

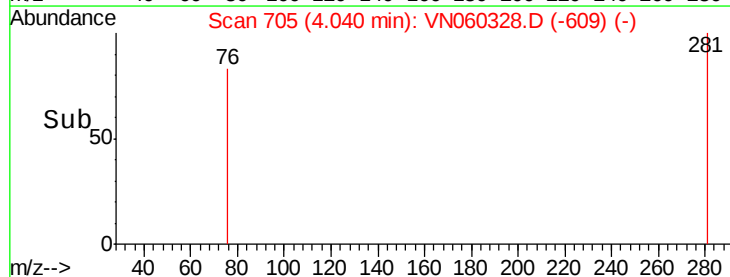
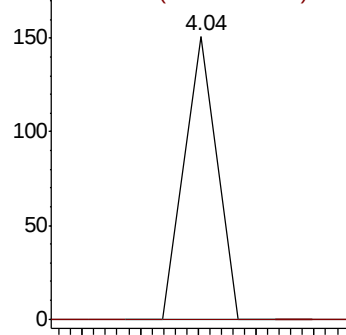
76 100

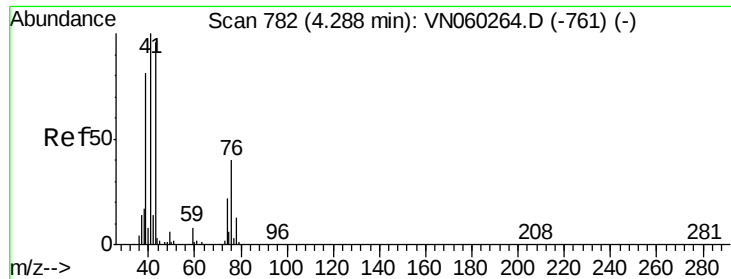
78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060328.D (-609) (-)

Ion 77.90 (77.60 to 78.60): VN060328.D (-609) (-)

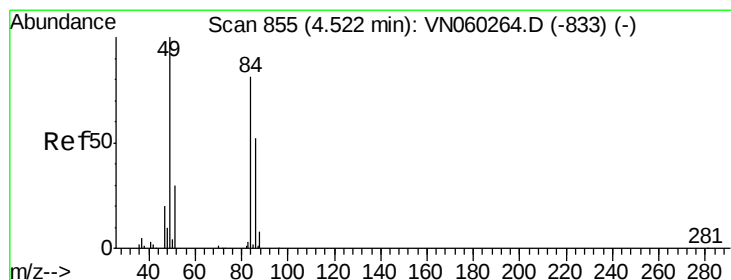
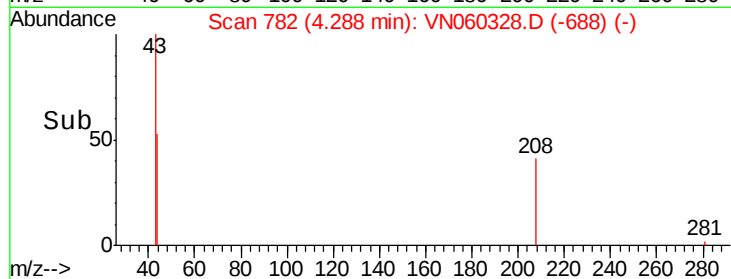
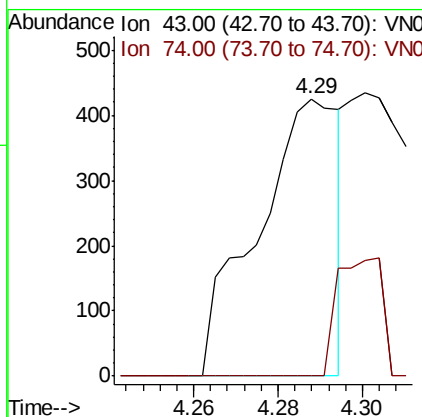
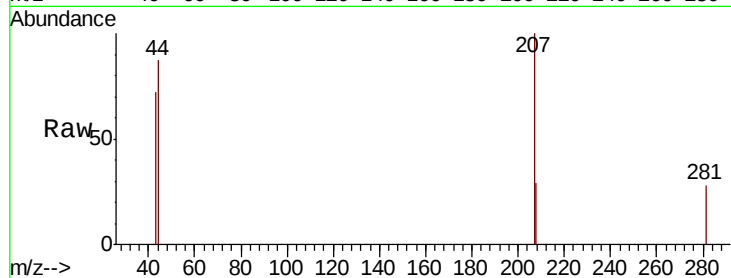




#18
Methyl Acetate
Concen: 0.209 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.00 min
Lab File: VN060328.D
Acq: 3 Mar 2020 14:41

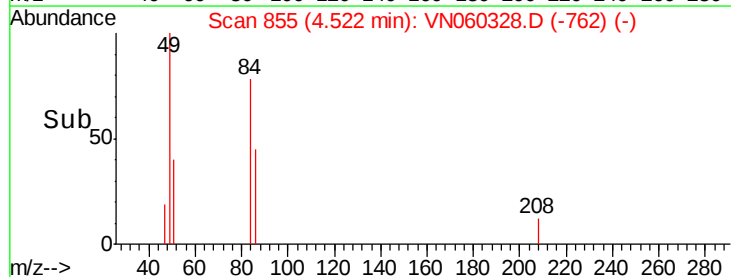
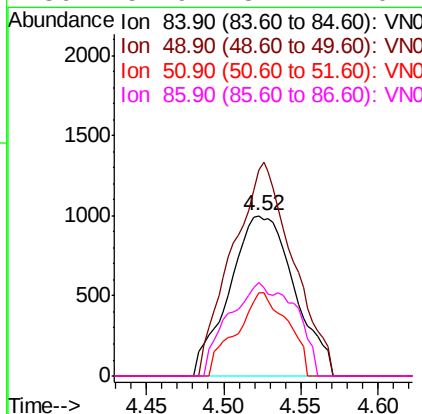
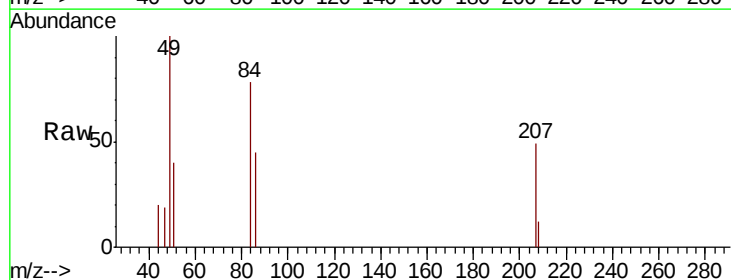
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 570
Ion Ratio Lower Upper
43 100
74 23.3 18.8 28.2



#20
Methylene Chloride
Concen: 1.298 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060328.D
Acq: 3 Mar 2020 14:41

Tgt Ion: 84 Resp: 2920
Ion Ratio Lower Upper
84 100
49 128.7 99.3 148.9
51 51.5 30.1 45.1#
86 57.9 51.1 76.7

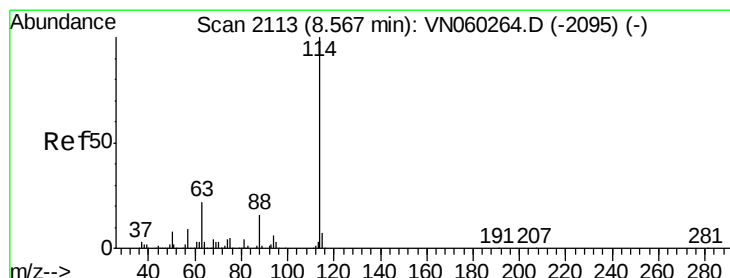
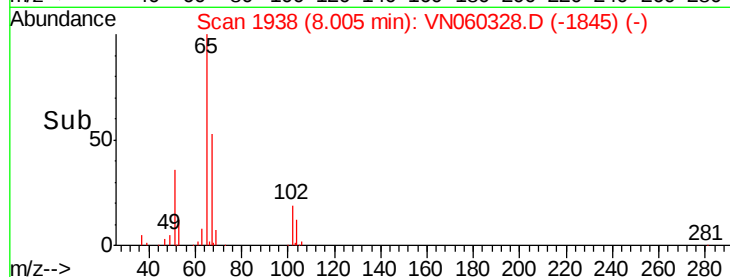
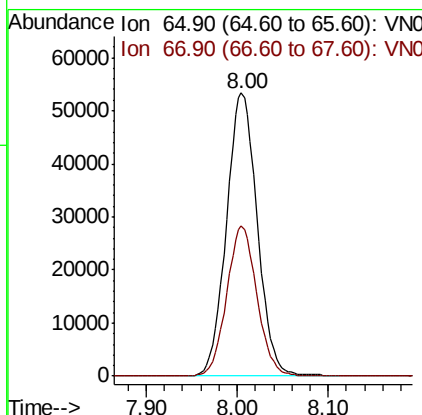
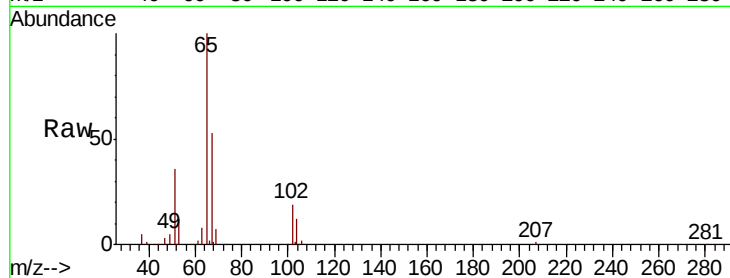




#33
 1,2-Dichloroethane-d4
 Concen: 49.560 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060328.D
 Acq: 3 Mar 2020 14:41

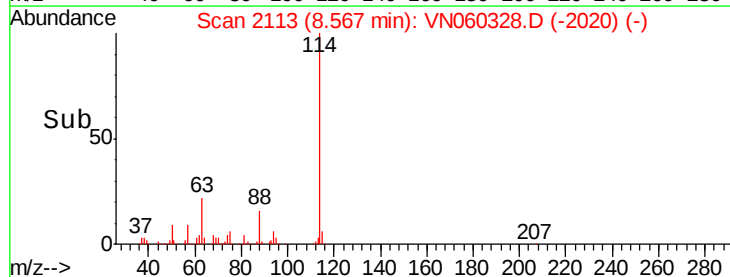
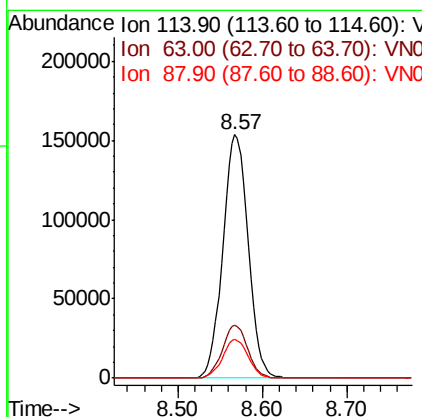
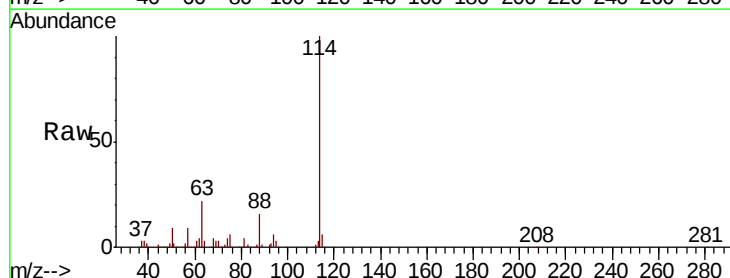
Instrument :
 MSVOA_N
 ClientSampleId :

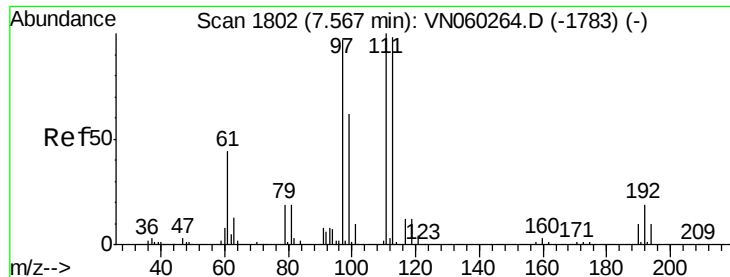
Tot Ion: 65 Resp: 125709
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060328.D
 Acq: 3 Mar 2020 14:41

Tgt Ion: 114 Resp: 320152
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.2
 88 16.0 0.0 31.6

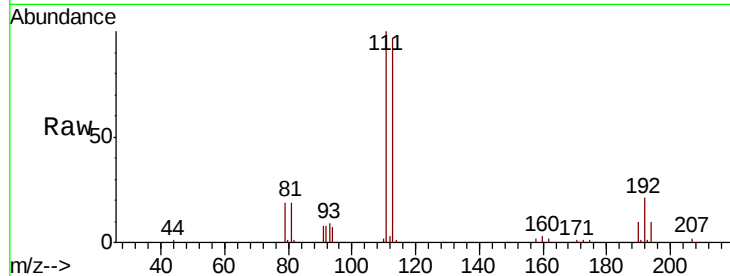




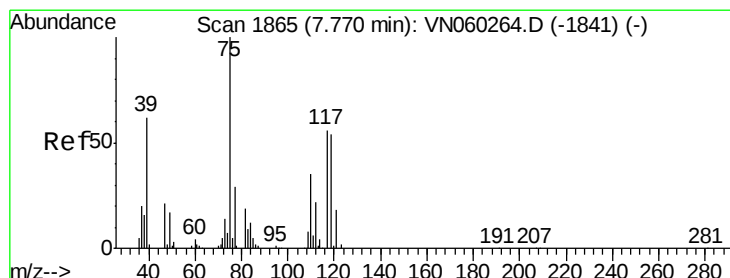
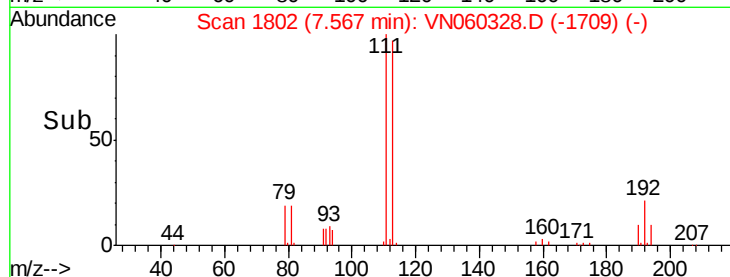
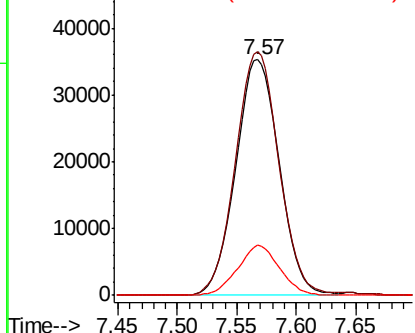
#35
 Dibromofluoromethane
 Concen: 60.297 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060328.D
 Acq: 3 Mar 2020 14:41

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	20.3	16.2	24.2

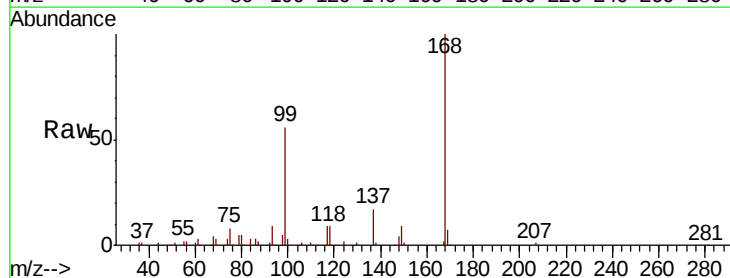


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

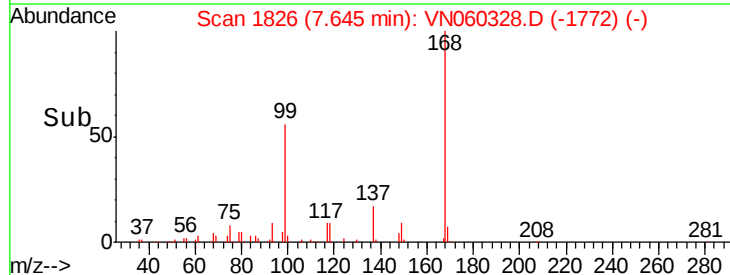
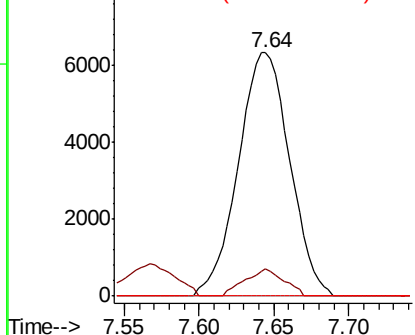


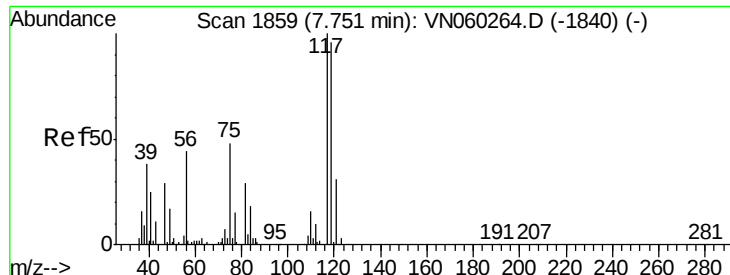
#36
 1,1-Dichloropropene
 Concen: 4.947 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060328.D
 Acq: 3 Mar 2020 14:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	17.3	52.0#
77	0.0	24.2	36.2#



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

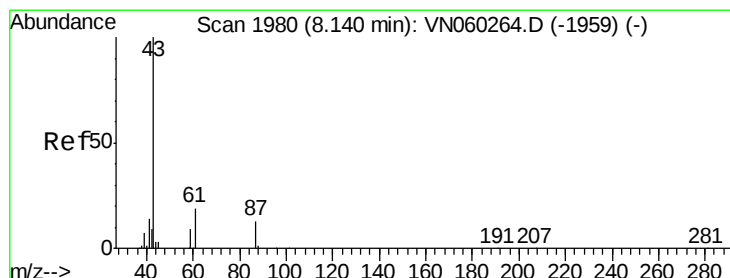
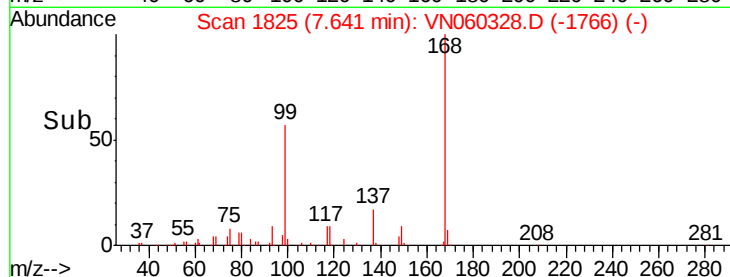
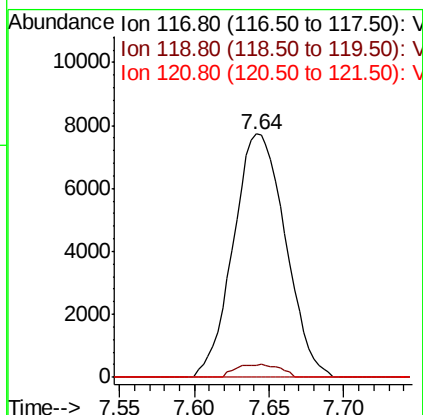
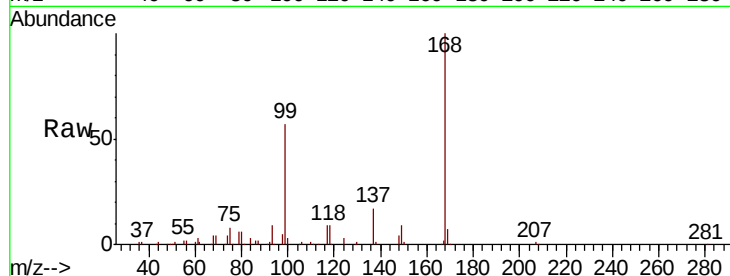




#38
Carbon Tetrachloride
Concen: 6.300 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060328.D
Acq: 3 Mar 2020 14:41

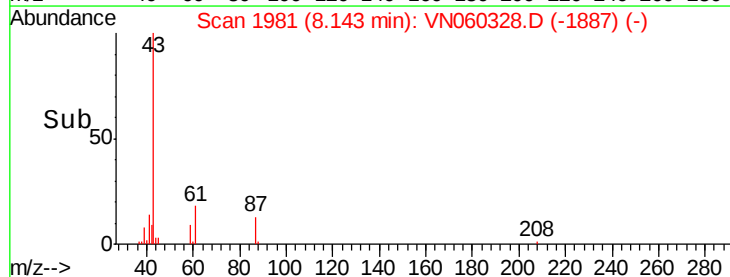
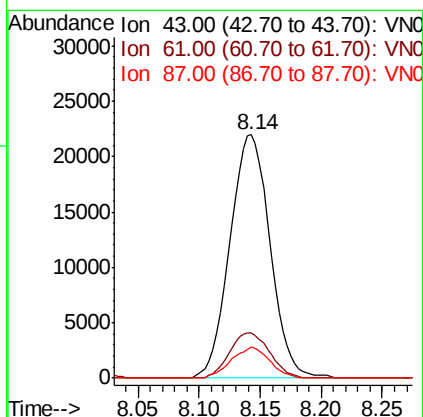
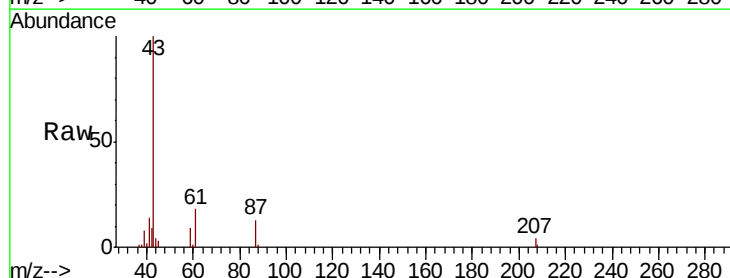
Instrument :
MSVOA_N
ClientSampleId :

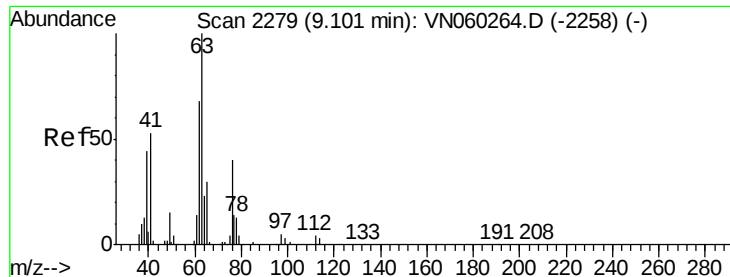
Tot Ion:117 Resp: 18716
Ion Ratio Lower Upper
117 100
119 5.1 76.7 115.1#
121 0.0 24.5 36.7#



#43
Isopropyl Acetate
Concen: 9.914 ug/l
RT: 8.14 min Scan# 1981
Delta R.T. 0.00 min
Lab File: VN060328.D
Acq: 3 Mar 2020 14:41

Tgt Ion: 43 Resp: 50146
Ion Ratio Lower Upper
43 100
61 18.5 20.9 31.3#
87 12.1 10.6 16.0

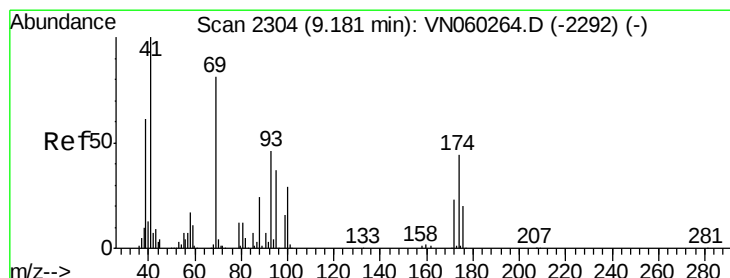
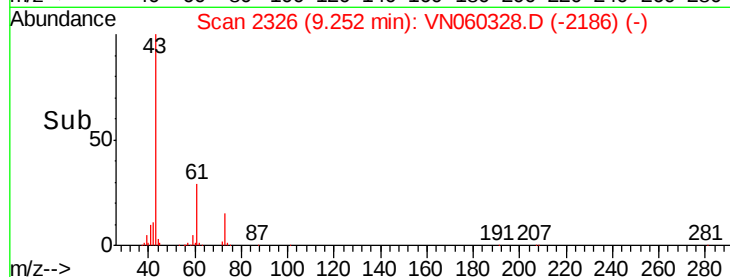
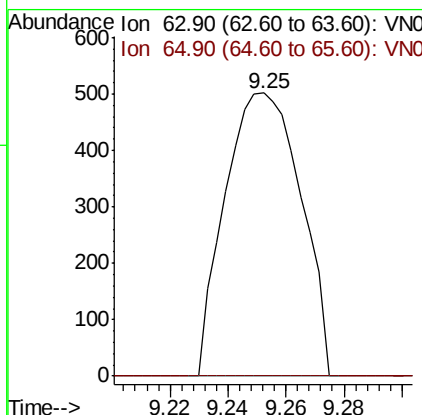
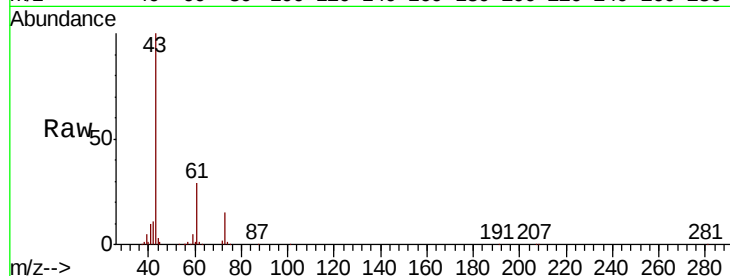




#45
 1,2-Dichloropropane
 Concen: 0.391 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN060328.D
 Acq: 3 Mar 2020 14:41

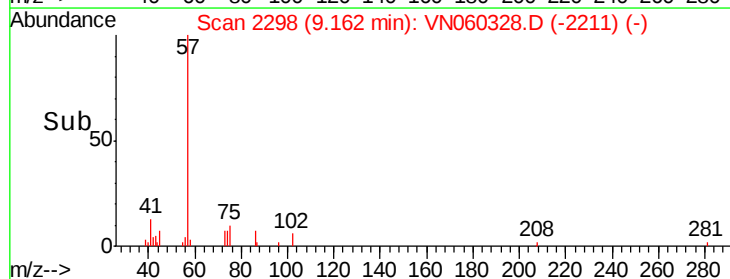
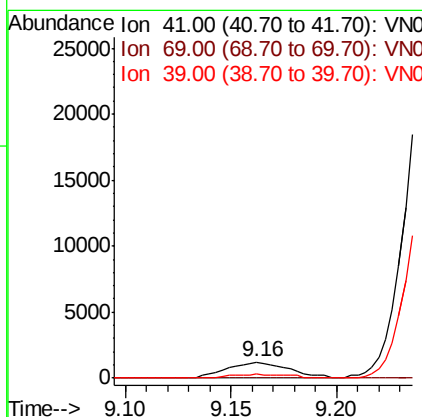
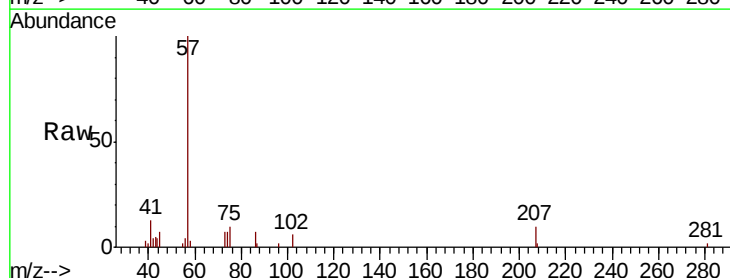
Instrument :
 MSVOA_N
 ClientSampleId :

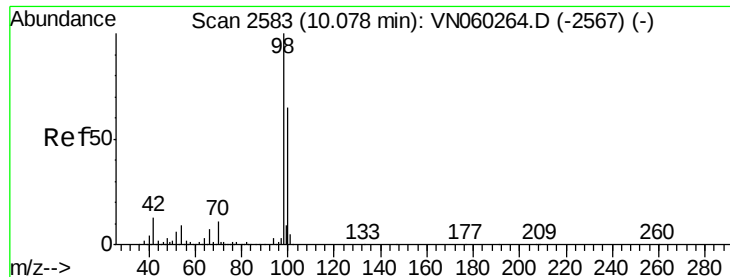
Tot Ion: 63 Resp: 909
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.056 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN060328.D
 Acq: 3 Mar 2020 14:41

Tgt Ion: 41 Resp: 2435
 Ion Ratio Lower Upper
 41 100
 69 0.0 66.7 100.1#
 39 0.0 50.1 75.1#





#50

Toluene-d8

Concen: 52.298 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060328.D

Acq: 3 Mar 2020 14:41

Instrument :

MSVOA_N

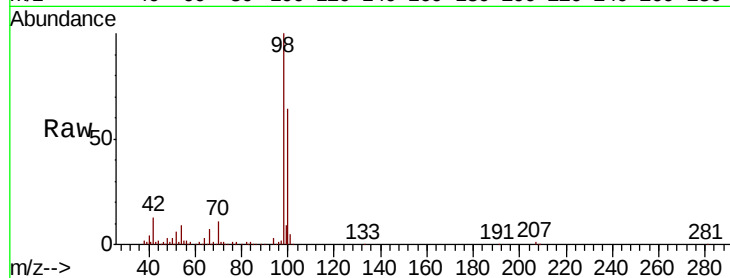
ClientSampled :

Tot Ion: 98 Resp: 393333

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

250000

200000

150000

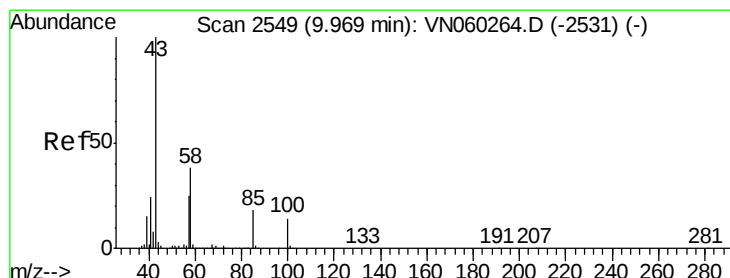
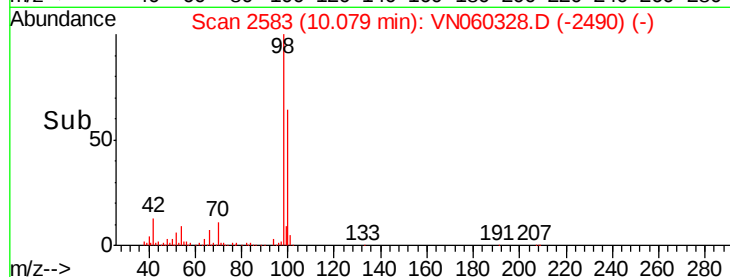
100000

50000

0

10.00 10.10 10.20

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.329 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060328.D

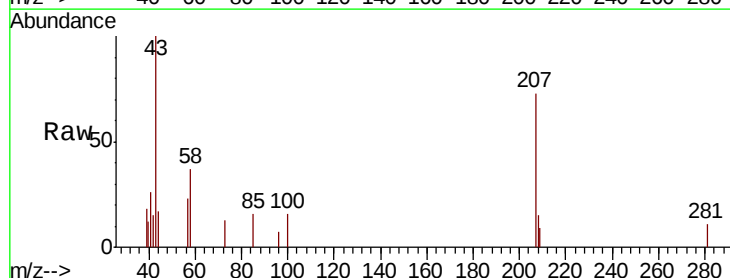
Acq: 3 Mar 2020 14:41

Tgt Ion: 43 Resp: 3810

Ion Ratio Lower Upper

43 100

58 34.2 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

8000

6000

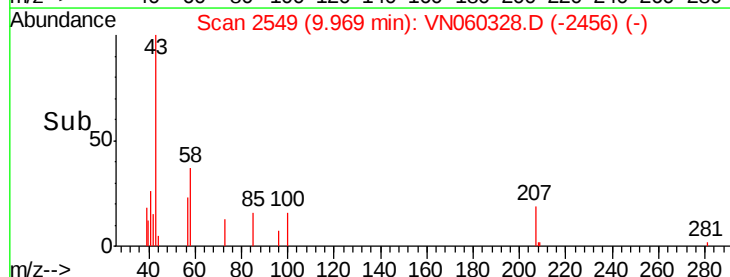
4000

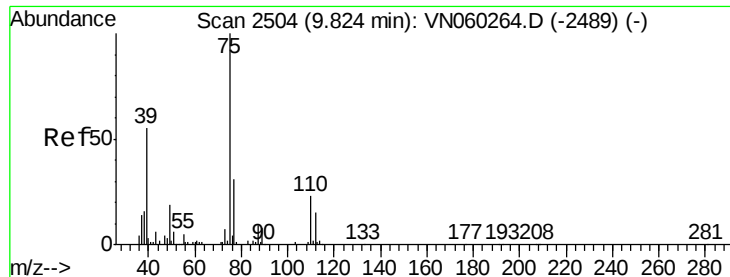
2000

0

9.95 9.97 10.00

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.540 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060328.D

Acq: 3 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

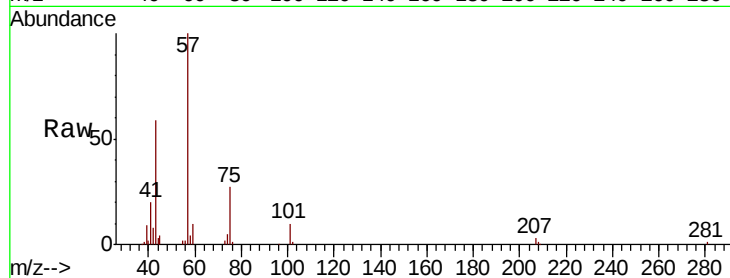
Tot Ion: 75 Resp: 21553

Ion Ratio Lower Upper

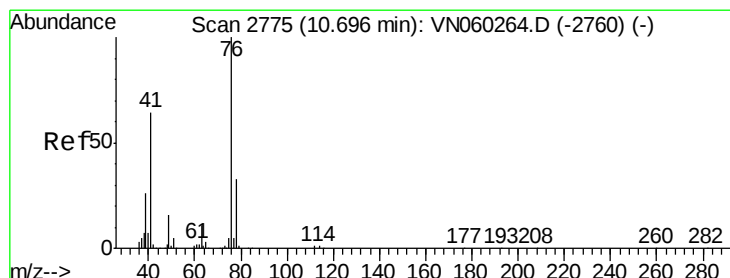
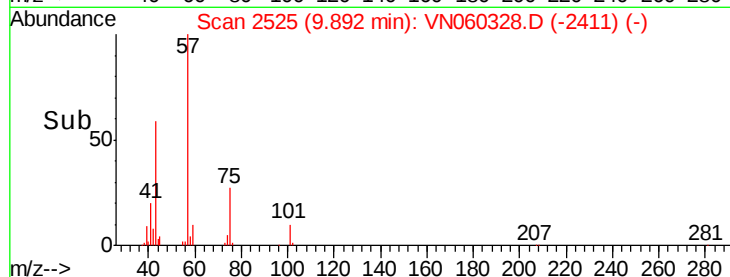
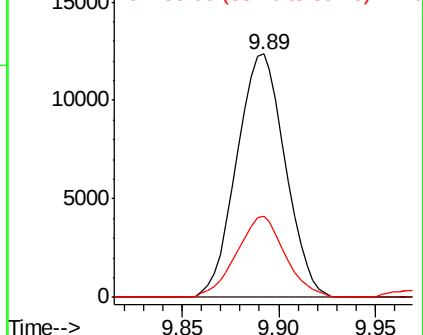
75 100

77 0.0 24.8 37.2#

39 33.5 43.8 65.8#



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: 1.027 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN060328.D

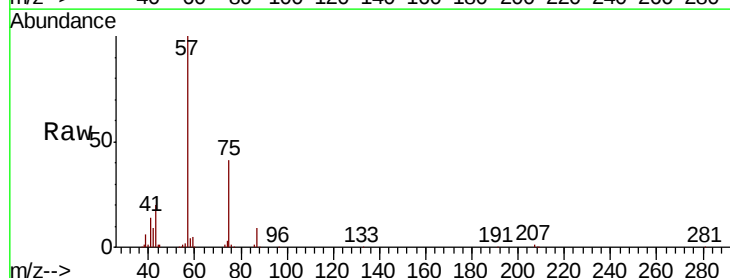
Acq: 3 Mar 2020 14:41

Tgt Ion: 76 Resp: 3759

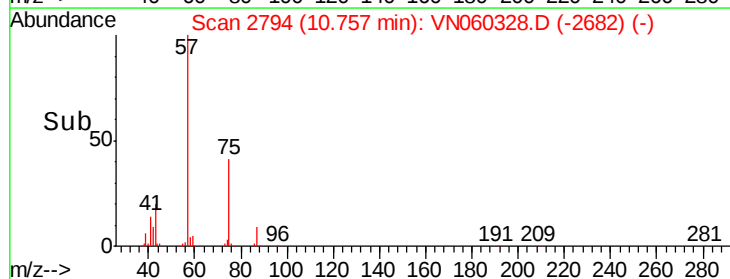
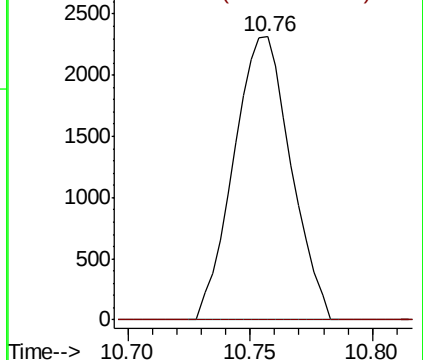
Ion Ratio Lower Upper

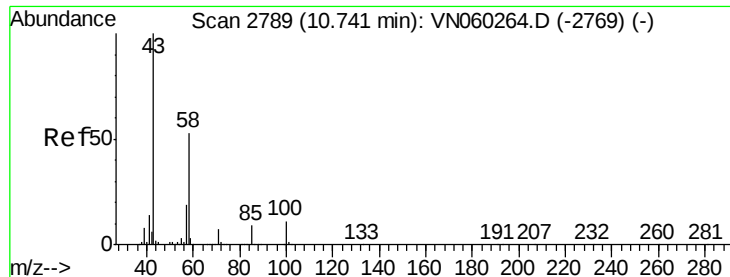
76 100

78 0.0 26.2 39.2#



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

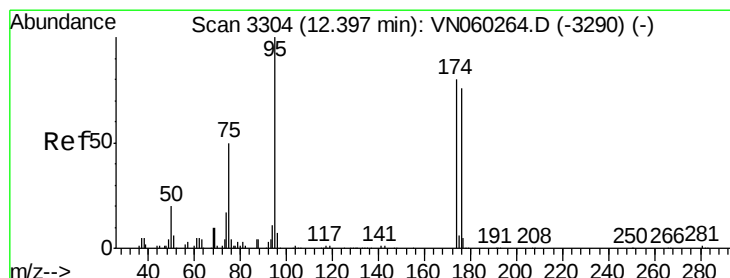
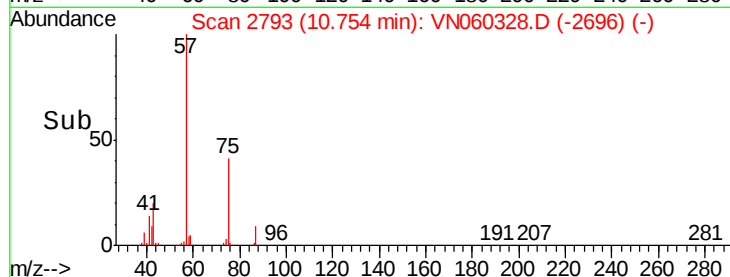
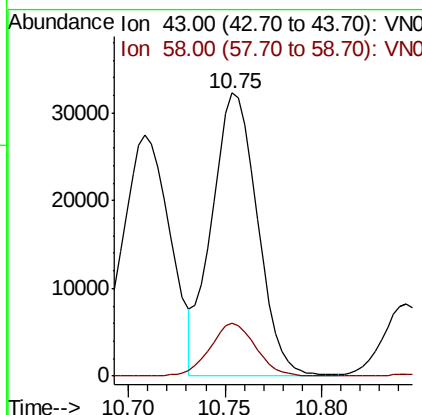
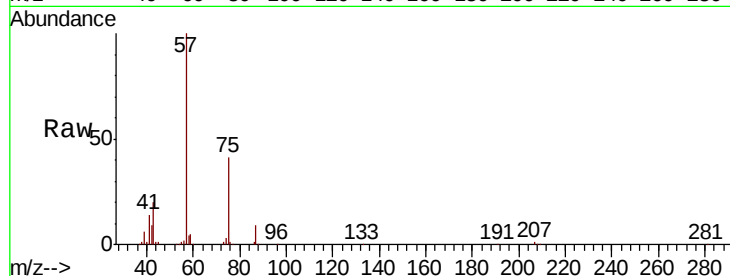




#59
2-Hexanone
Concen: 25.010 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060328.D
Acq: 3 Mar 2020 14:41

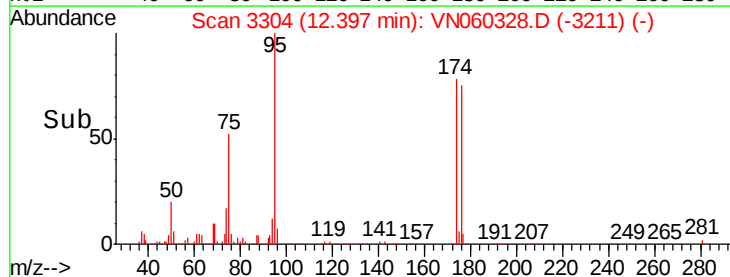
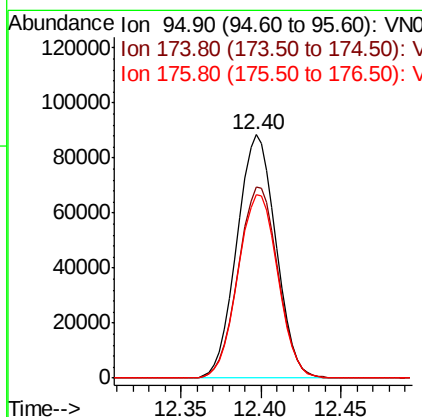
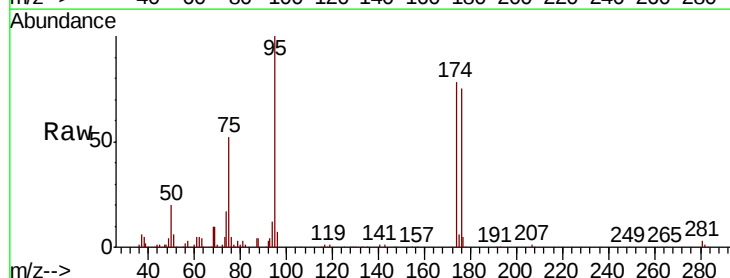
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 52661
Ion Ratio Lower Upper
43 100
58 18.9 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 51.544 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060328.D
Acq: 3 Mar 2020 14:41

Tgt Ion: 95 Resp: 146953
Ion Ratio Lower Upper
95 100
174 80.3 0.0 159.2
176 77.6 0.0 153.8

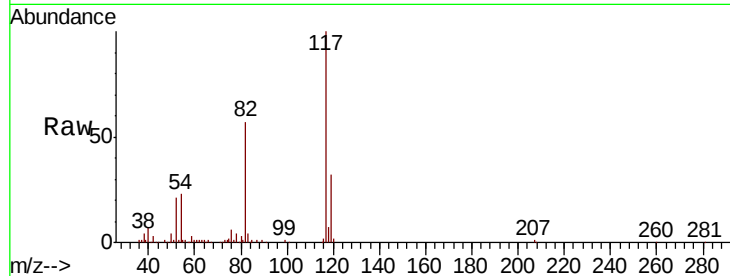




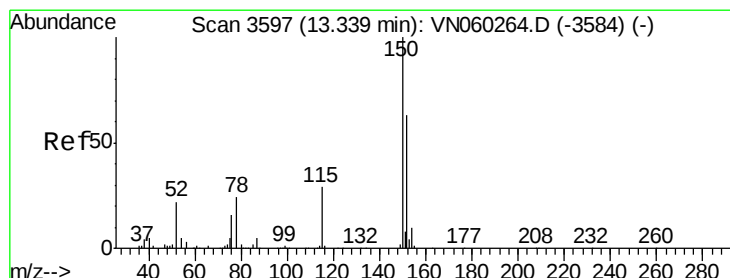
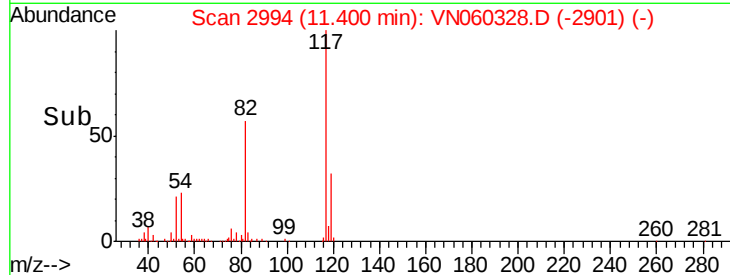
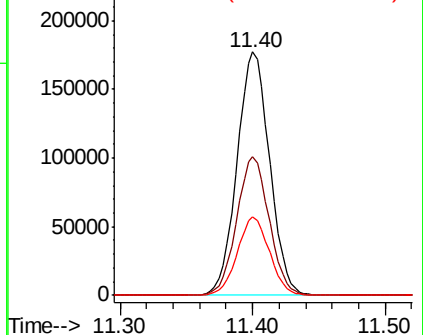
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060328.D
Acq: 3 Mar 2020 14:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 302033
Ion Ratio Lower Upper
117 100
82 57.1 45.8 68.6
119 32.2 25.8 38.8

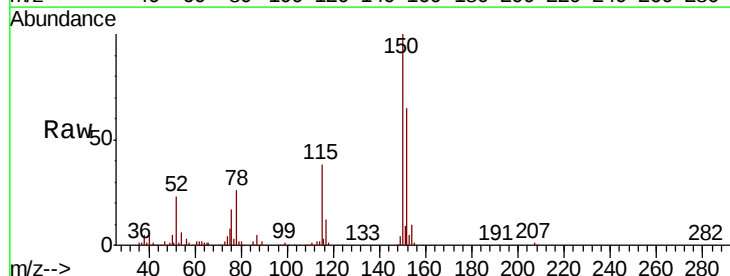


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

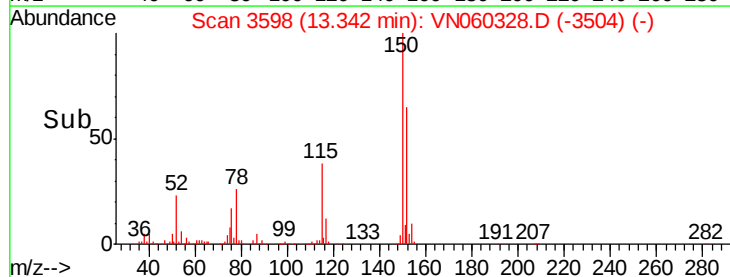
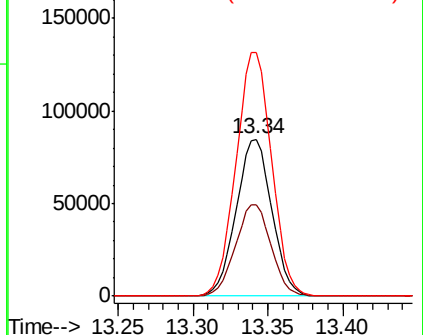


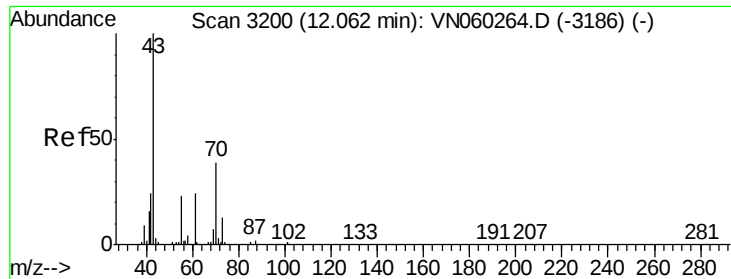
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN060328.D
Acq: 3 Mar 2020 14:41

Tgt Ion:152 Resp: 140301
Ion Ratio Lower Upper
152 100
115 58.5 30.0 90.0
150 155.6 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





#74

N-amvl acetate

Concen: 0.483 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060328.D

Acq: 3 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2194

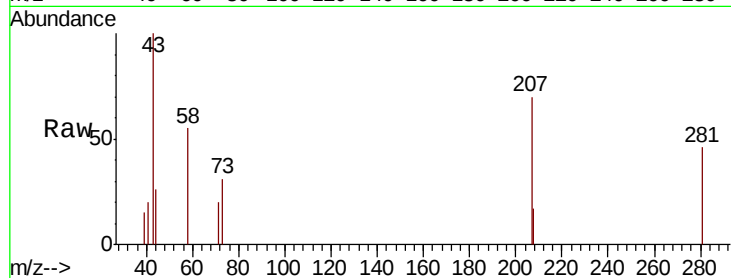
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

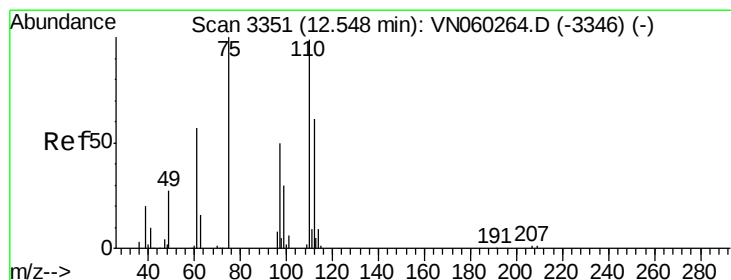
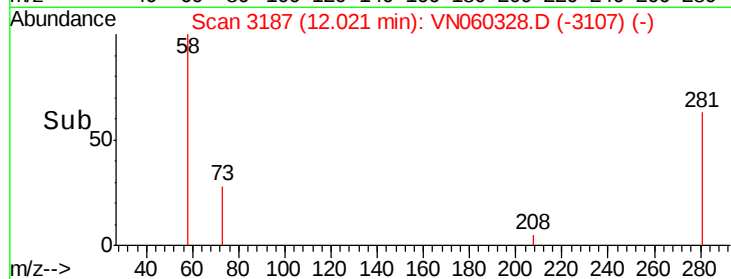
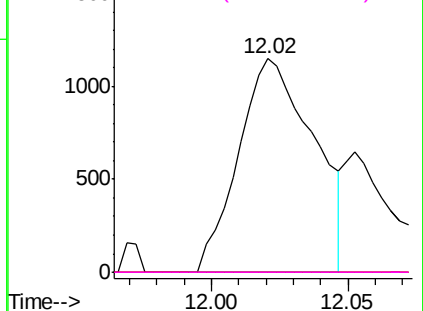


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.854 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060328.D

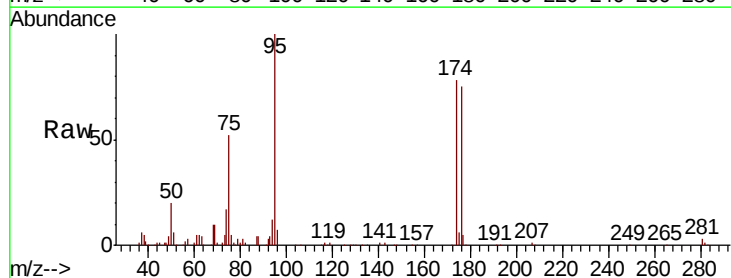
Acq: 3 Mar 2020 14:41

Tgt Ion: 75 Resp: 76505

Ion Ratio Lower Upper

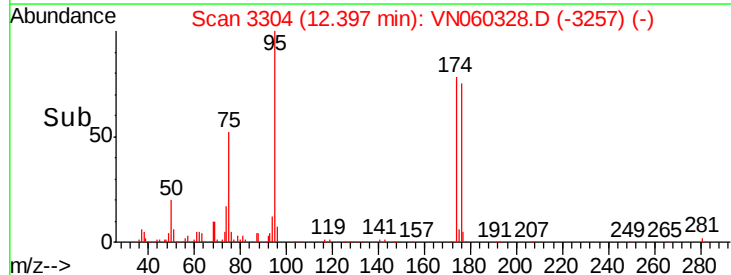
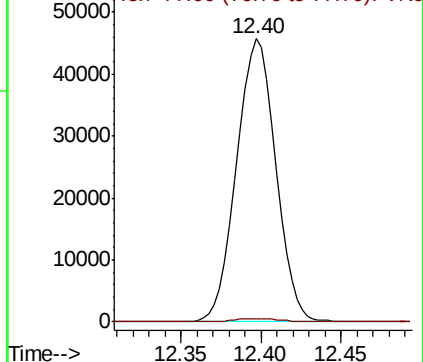
75 100

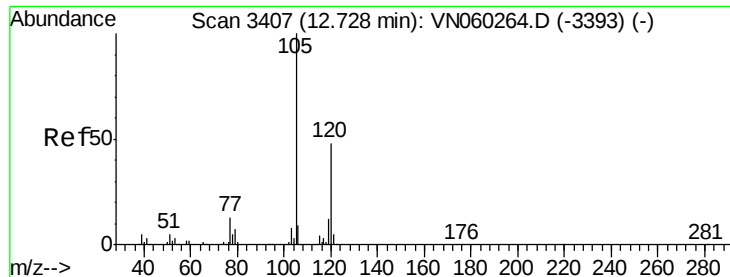
77 1.2 0.0 0.0#



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: 0.317 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060328.D

Acq: 3 Mar 2020 14:41

Instrument :

MSVOA_N

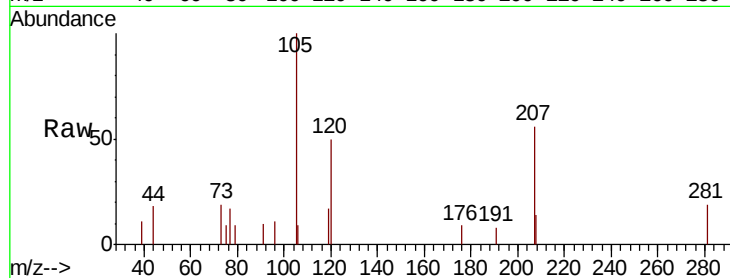
ClientSampled :

Tot Ion:105 Resp: 2777

Ion Ratio Lower Upper

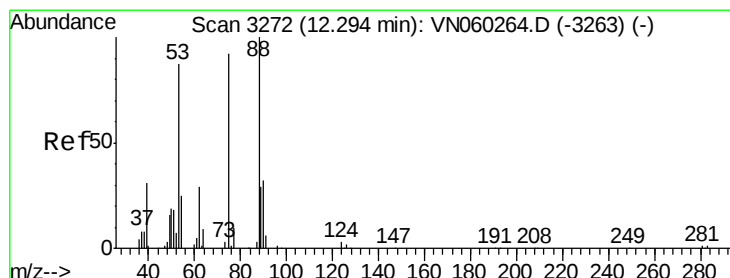
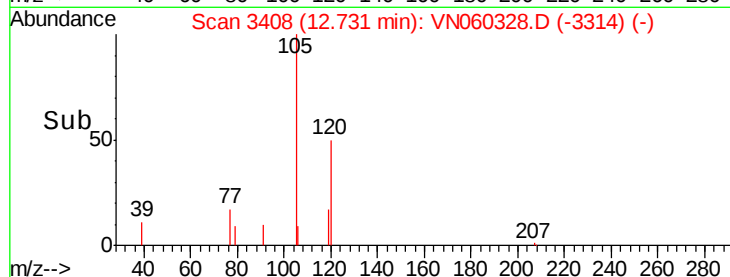
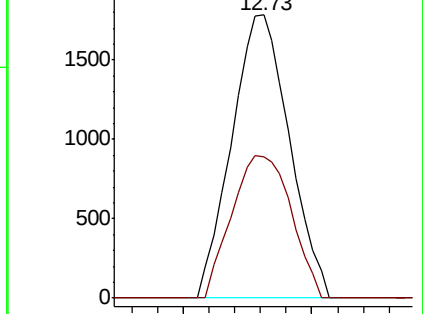
105 100

120 52.0 24.1 72.4



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: 68.608 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060328.D

Acq: 3 Mar 2020 14:41

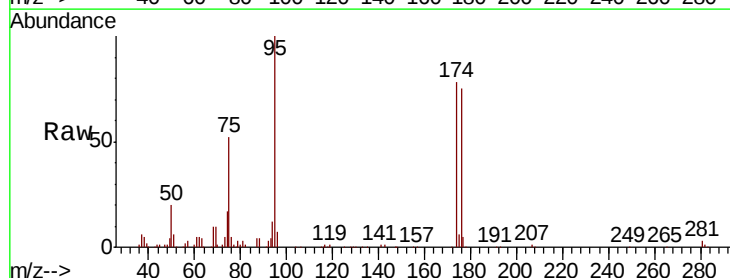
Tgt Ion: 75 Resp: 76505

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

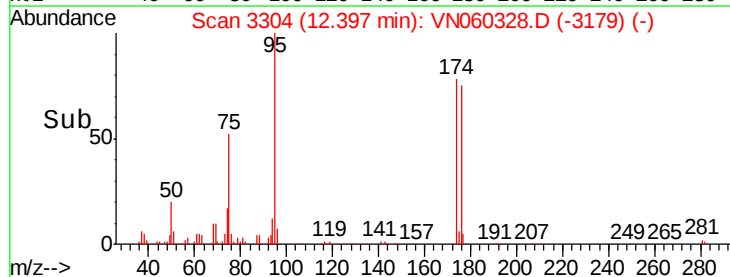
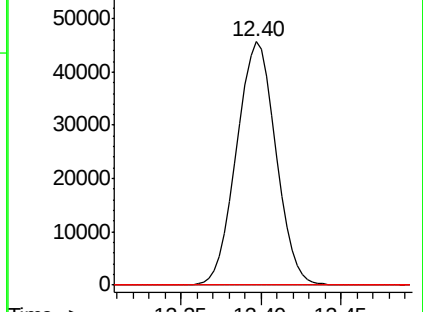
89 0.0 57.1 85.7#

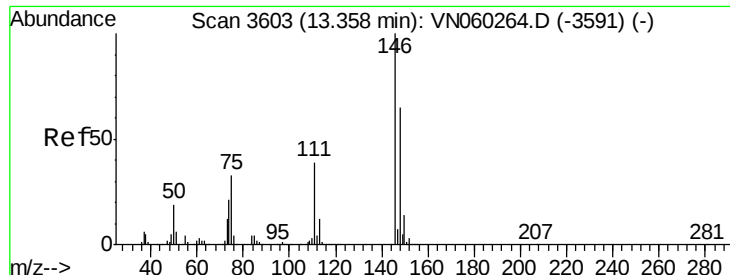


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

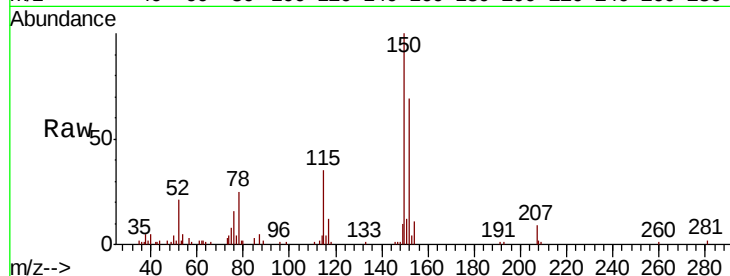




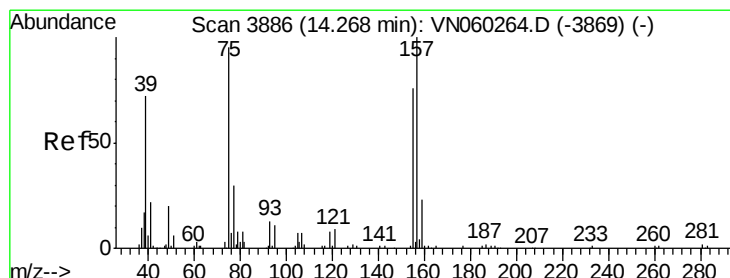
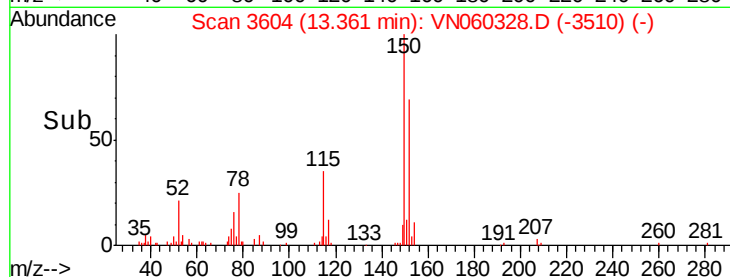
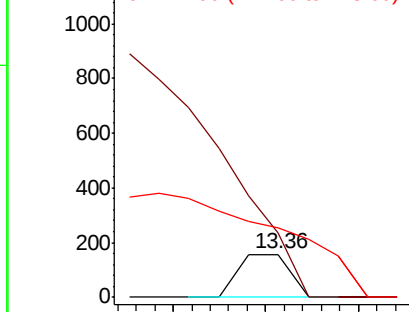
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN060328.D
 Acq: 3 Mar 2020 14:41

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:146 Resp: 60
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.8 59.4#
 148 0.0 32.3 96.9#

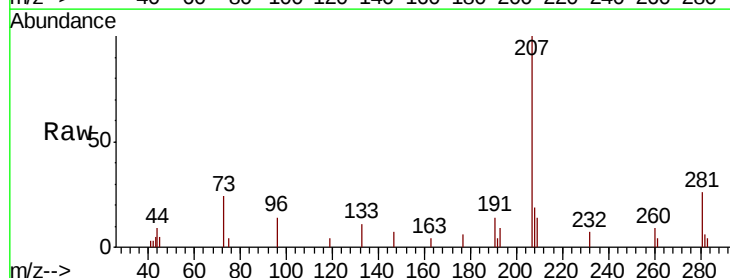


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

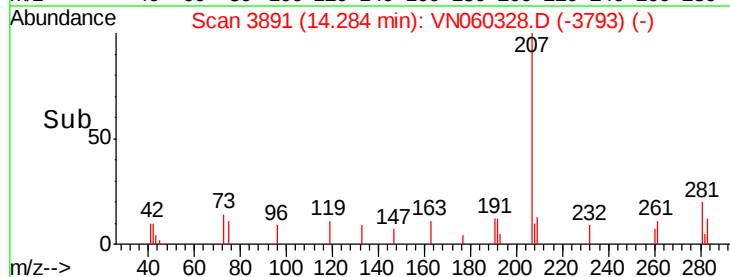
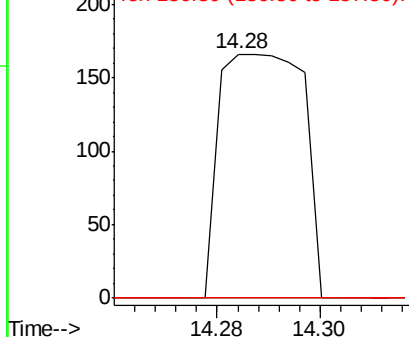


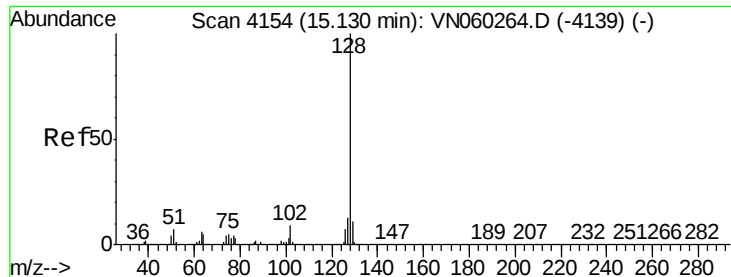
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.292 ug/l
 RT: 14.28 min Scan# 3891
 Delta R.T. 0.02 min
 Lab File: VN060328.D
 Acq: 3 Mar 2020 14:41

Tgt Ion: 75 Resp: 187
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.4 121.2#
 157 0.0 52.5 157.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

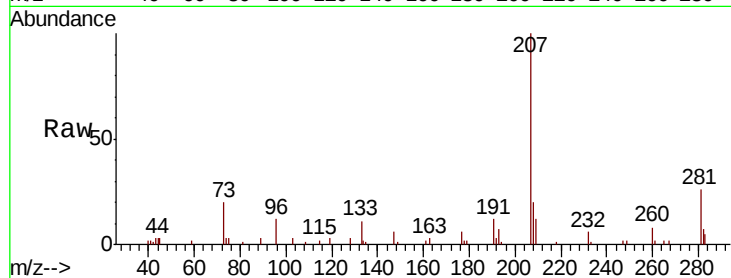




#95
Naphthalene
Concen: Below Cal
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN060328.D
Acq: 3 Mar 2020 14:41

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

