

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030320\
 Data File : VN060333.D
 Acq On : 3 Mar 2020 16:35
 Operator : JC/MD
 Sample : L1762-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 04 01:15:46 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	205976	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	332471	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	316940	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	149257	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	131291	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
35) Dibromofluoromethane	7.57	113	96560	62.57	ug/l	0.00
Spiked Amount			Recovery	=	125.14%	
50) Toluene-d8	10.08	98	413766	52.98	ug/l	0.00
Spiked Amount			Recovery	=	105.96%	
62) 4-Bromofluorobenzene	12.40	95	156034	52.70	ug/l	0.00
Spiked Amount			Recovery	=	105.40%	

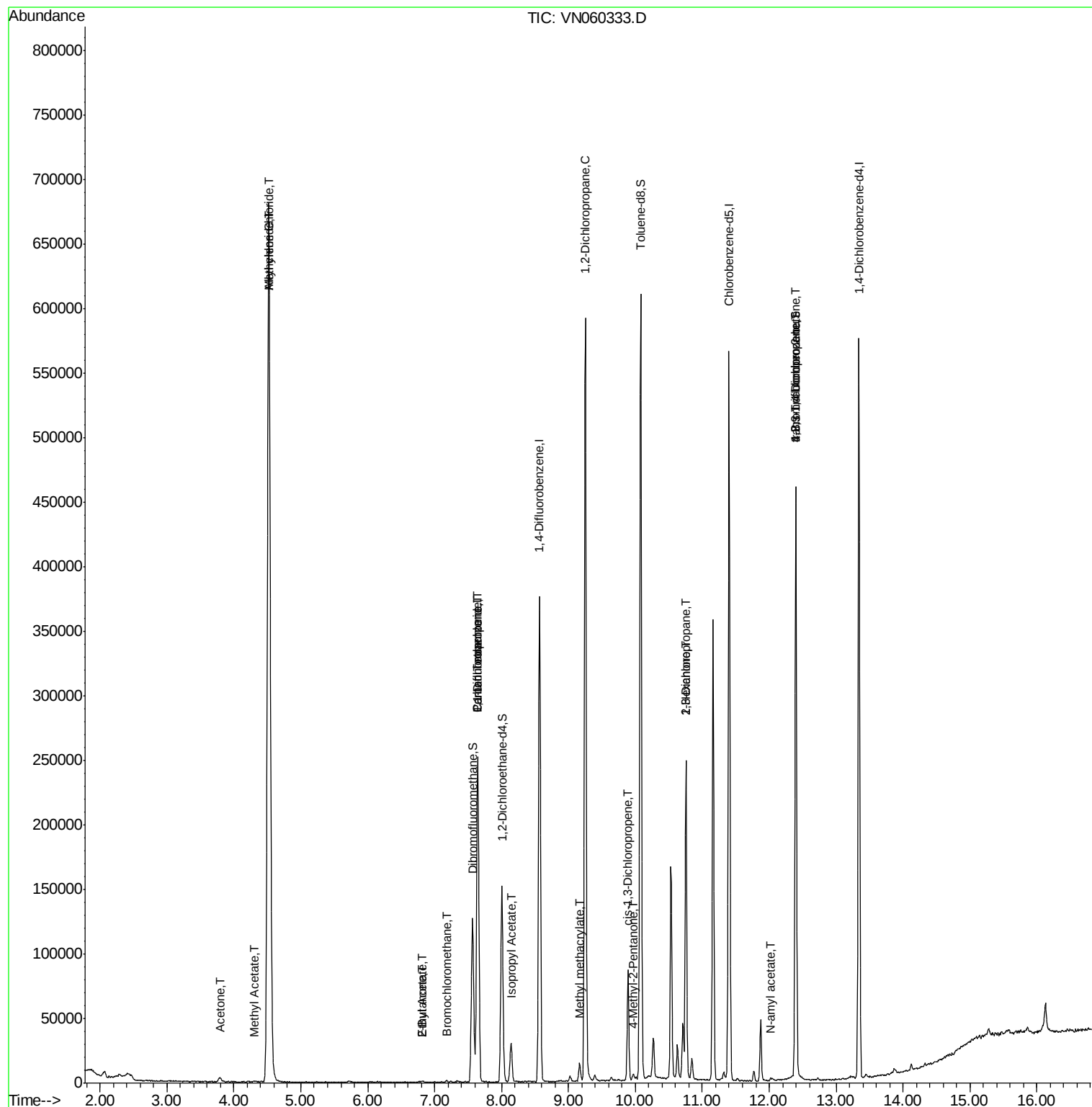
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.52	41	17761	4.868	ug/l #	24
16) Acetone	3.79	43	6361	7.454	ug/l	97
18) Methyl Acetate	4.31	43	1039	0.365	ug/l #	52
20) Methylene Chloride	4.52	84	508953	217.155	ug/l	98
21) trans-1,2-Dichloroethene	5.24	96	30	Below Cal	#	1
25) 2-Butanone	6.82	43	1164	0.844	ug/l #	49
28) Bromochloromethane	7.17	49	878	0.511	ug/l #	84
31) Cyclohexane	7.64	56	4345	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15769	4.977	ug/l #	50
37) Ethyl Acetate	6.82	43	1164	0.388	ug/l #	68
38) Carbon Tetrachloride	7.64	117	20337	6.592	ug/l #	16
43) Isopropyl Acetate	8.14	43	35393	6.738	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	575	0.238	ug/l #	44
48) Methyl methacrylate	9.17	41	1937	0.809	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3390	1.138	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	15134	3.746	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2454	0.646	ug/l #	42
59) 2-Hexanone	10.75	43	36682	16.776	ug/l #	52
74) N-amyl acetate	12.02	43	2015	0.417	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	80840	24.686	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	80840	68.145	ug/l #	8
95) Naphthalene	15.13	128	358	Below Cal	#	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060333.D

Acq: 3 Mar 2020 16:35

Instrument :

MSVOA_N

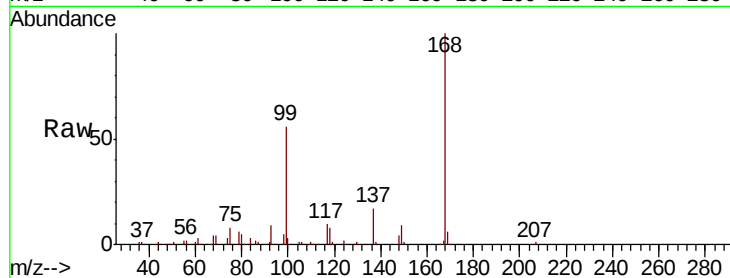
ClientSampled :

Tot Ion:168 Resp: 205976

Ion Ratio Lower Upper

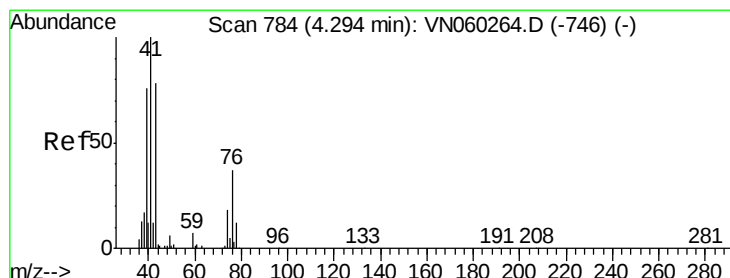
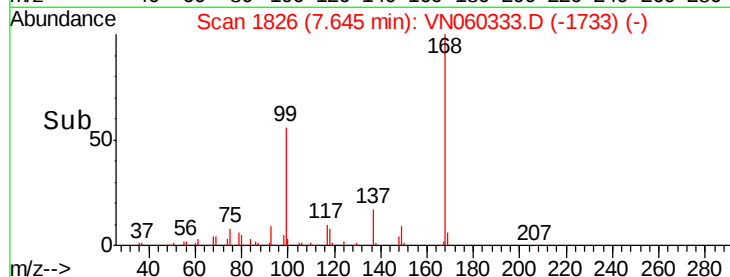
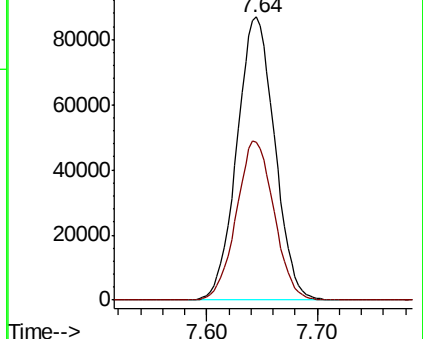
168 100

99 55.8 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#14

Allyl chloride

Concen: 4.868 ug/l

RT: 4.52 min Scan# 854

Delta R.T. 0.23 min

Lab File: VN060333.D

Acq: 3 Mar 2020 16:35

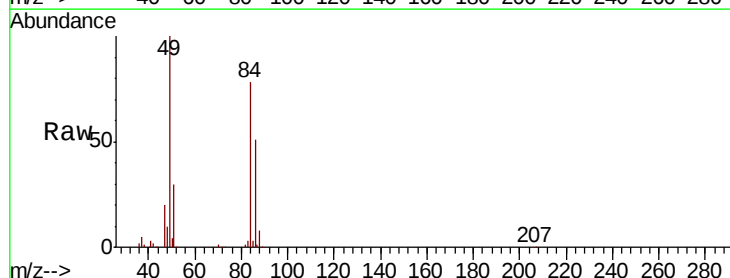
Tgt Ion: 41 Resp: 17761

Ion Ratio Lower Upper

41 100

39 0.0 55.4 83.2#

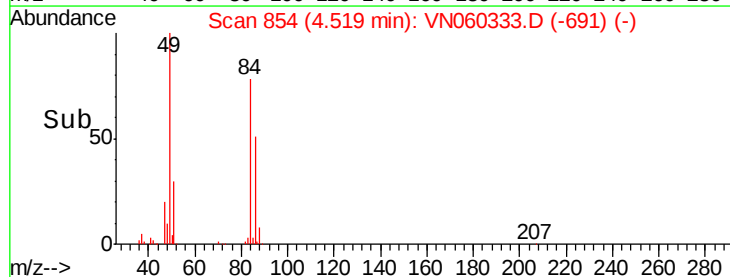
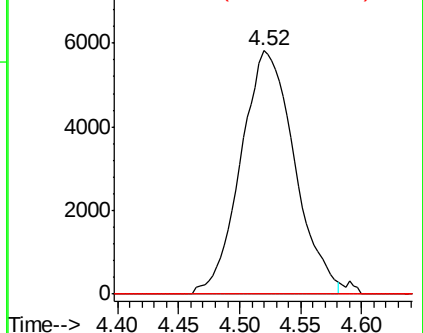
76 0.0 27.0 40.6#

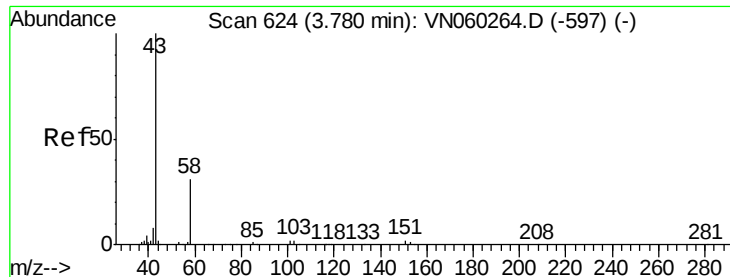


Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN

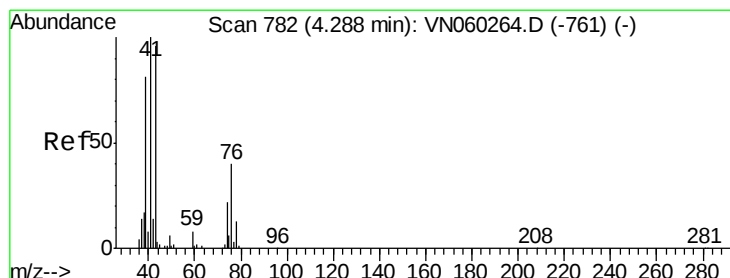
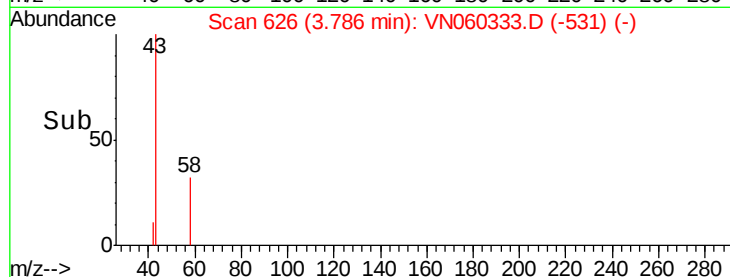
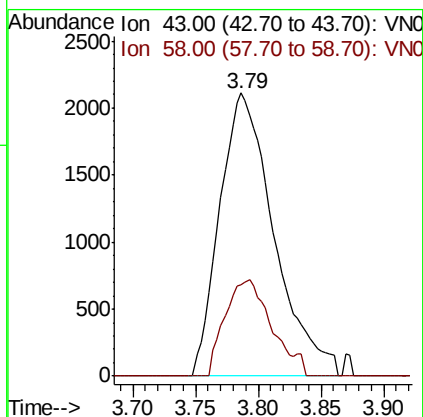
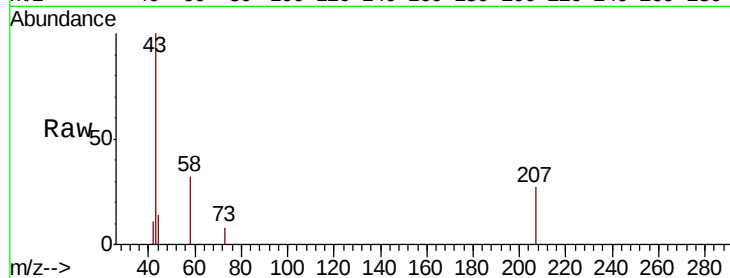




#16
Acetone
Concen: 7.454 ug/l
RT: 3.79 min Scan# 626
Delta R.T. 0.01 min
Lab File: VN060333.D
Acq: 3 Mar 2020 16:35

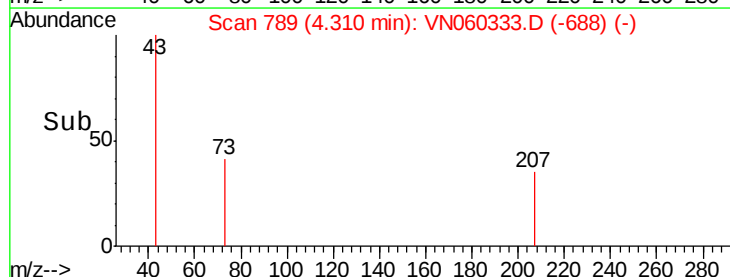
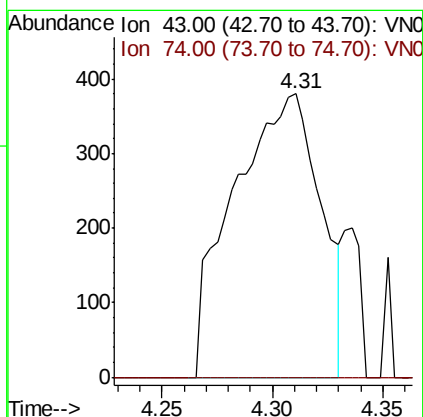
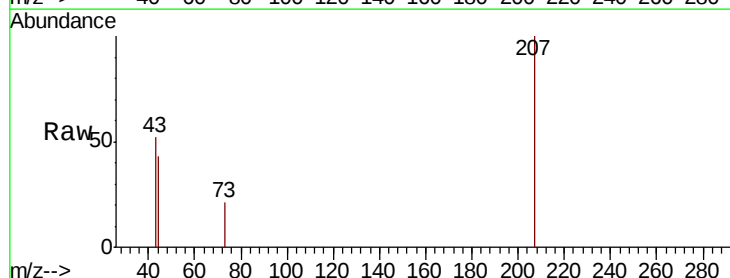
Instrument :
MSVOA_N
ClientSampled :

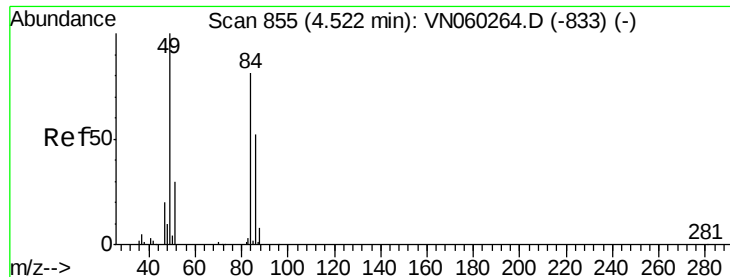
Tot Ion: 43 Resp: 6361
Ion Ratio Lower Upper
43 100
58 32.5 24.6 36.8



#18
Methyl Acetate
Concen: 0.365 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.02 min
Lab File: VN060333.D
Acq: 3 Mar 2020 16:35

Tgt Ion: 43 Resp: 1039
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#

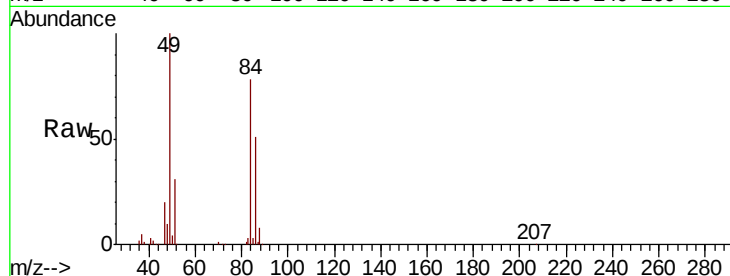




#20
Methvlene Chloride
Concen: 217.155 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060333.D
Acq: 3 Mar 2020 16:35

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	508953
Ion	Ratio	Lower	Upper
84	100		
49	127.5	99.3	148.9
51	39.0	30.1	45.1
86	65.1	51.1	76.7



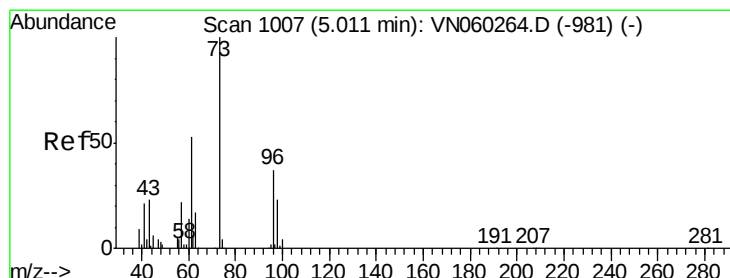
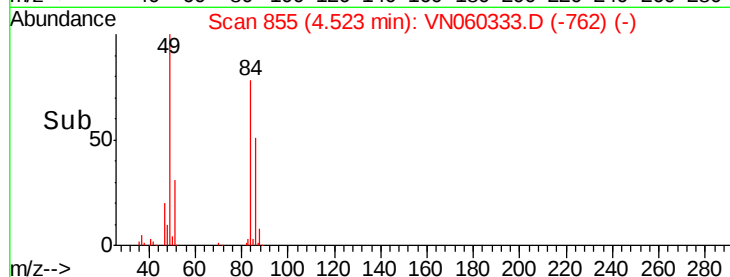
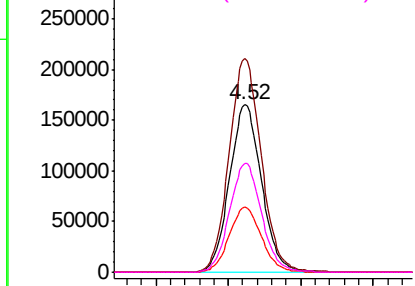
Abundance

Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

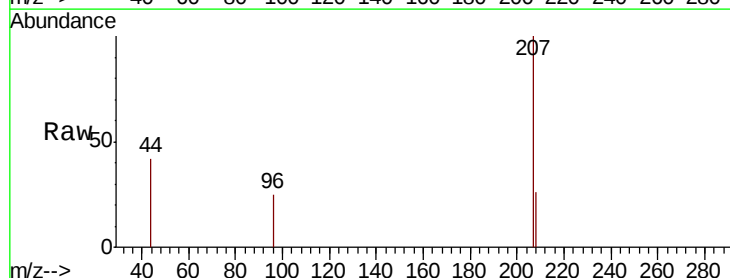
Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.24 min Scan# 1077
Delta R.T. 0.23 min
Lab File: VN060333.D
Acq: 3 Mar 2020 16:35

Tgt Ion:	96	Resp:	30
Ion	Ratio	Lower	Upper
96	100		
61	0.0	113.8	170.8#
98	0.0	48.8	73.2#

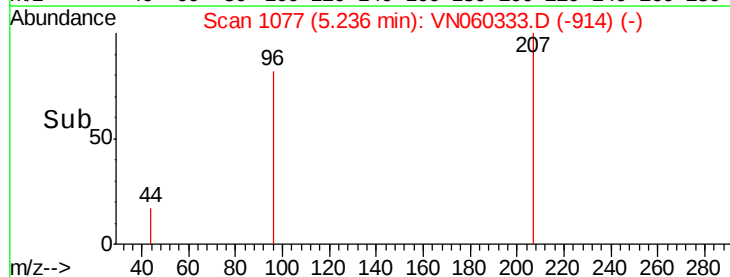
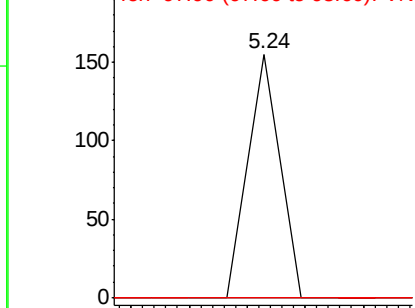


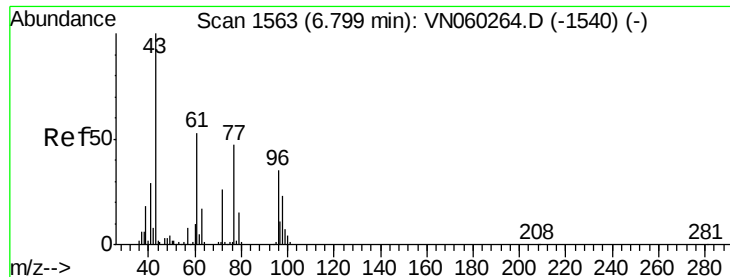
Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#25

2-Butanone

Concen: 0.844 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.02 min

Lab File: VN060333.D

Acq: 3 Mar 2020 16:35

Instrument :

MSVOA_N

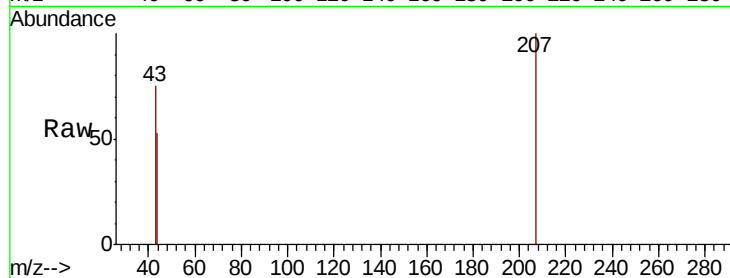
ClientSampled :

Tot Ion: 43 Resp: 1164

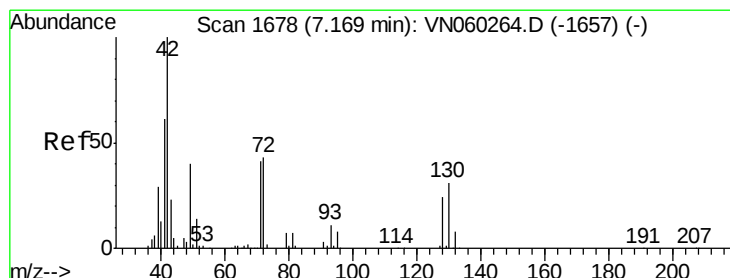
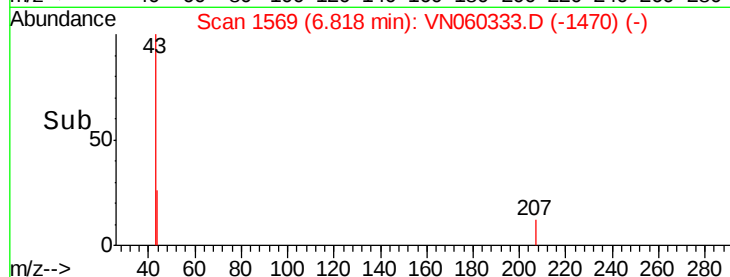
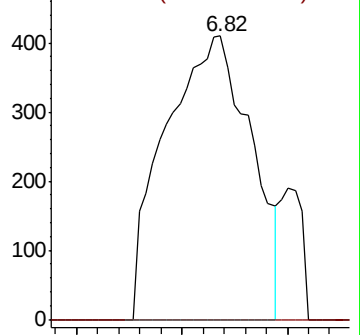
Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060333.D (-1540) (-)



#28

Bromochloromethane

Concen: 0.511 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VN060333.D

Acq: 3 Mar 2020 16:35

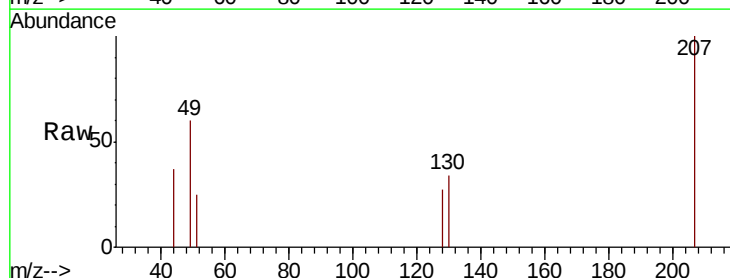
Tgt Ion: 49 Resp: 878

Ion Ratio Lower Upper

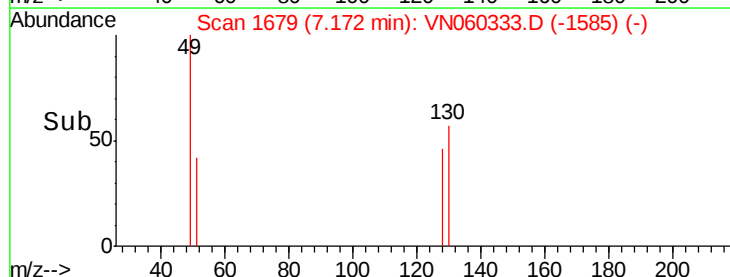
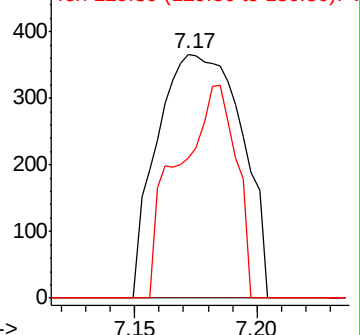
49 100

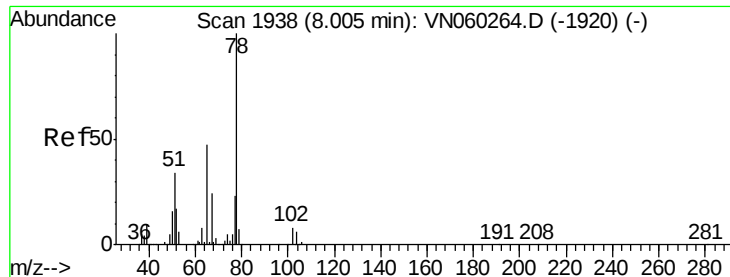
129 0.0 0.0 3.8

130 60.6 59.8 89.8



Abundance Ion 48.90 (48.60 to 49.60): VN060333.D (-1585) (-)

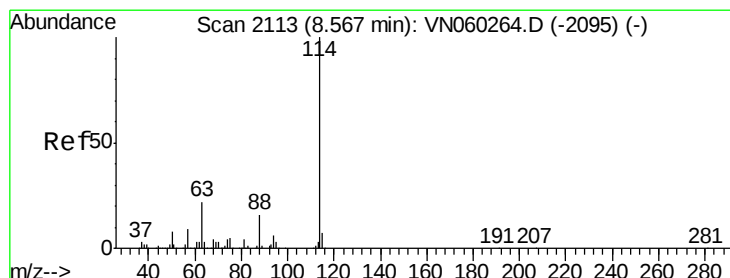
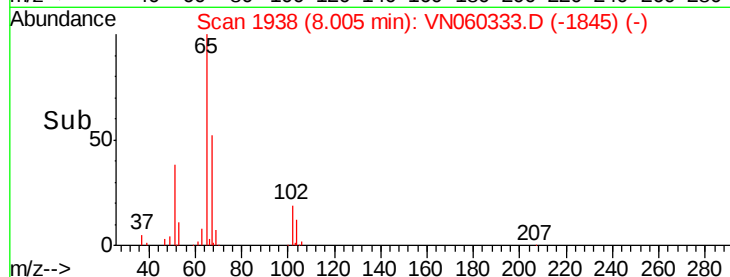
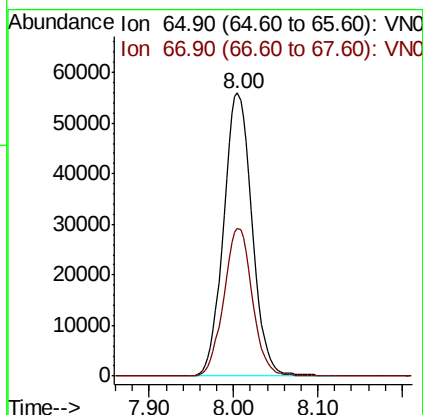
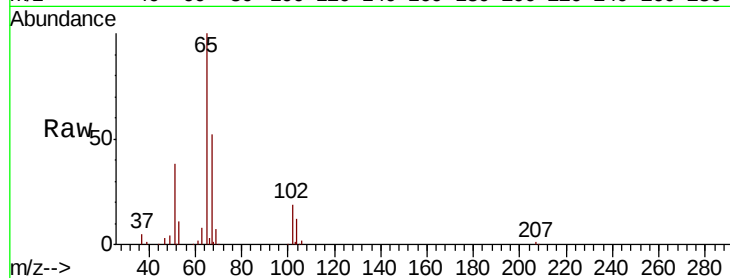




#33
 1,2-Dichloroethane-d4
 Concen: 49.681 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060333.D
 Acq: 3 Mar 2020 16:35

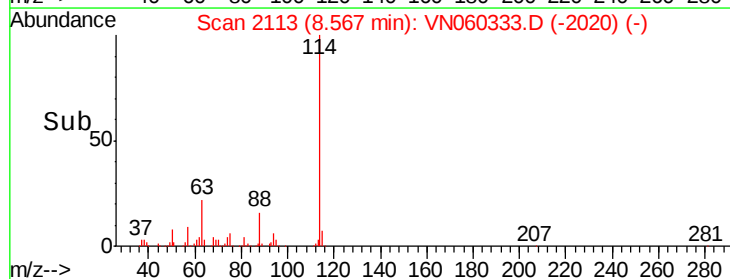
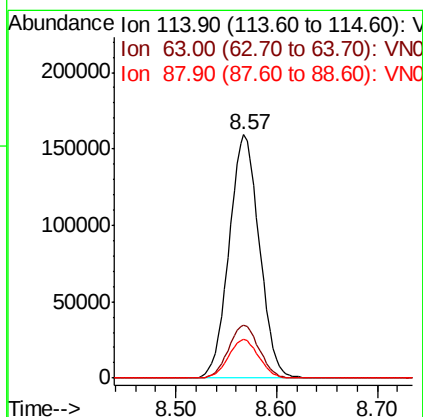
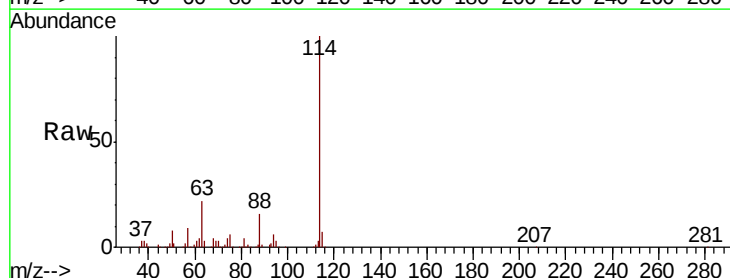
Instrument :
 MSVOA_N
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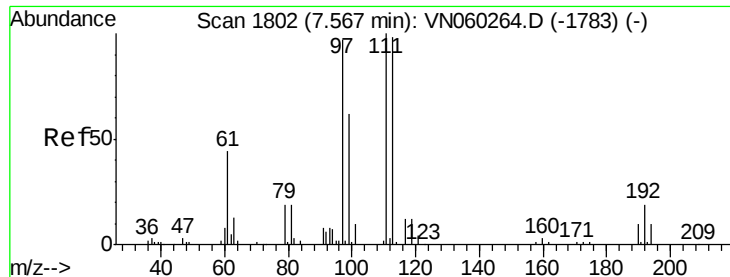
Tot Ion: 65 Resp: 131291
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060333.D
 Acq: 3 Mar 2020 16:35

Tgt Ion: 114 Resp: 332471
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 43.2
 88 15.7 0.0 31.6

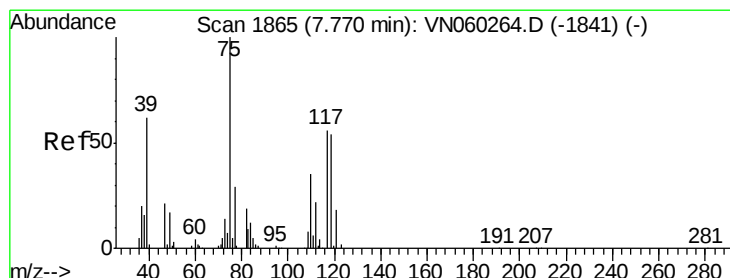
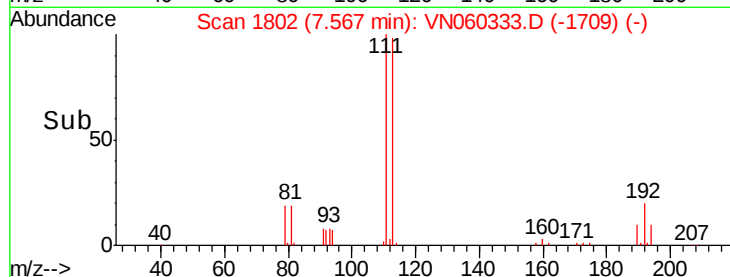
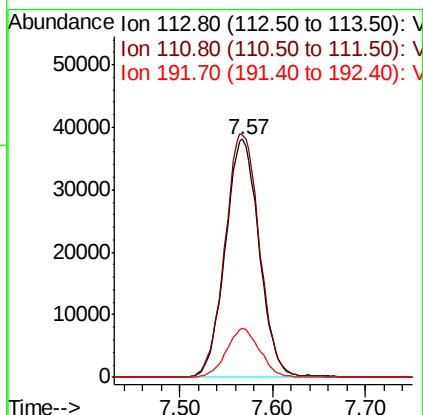
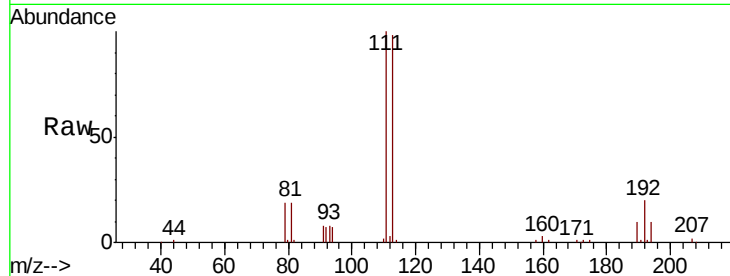




#35
 Dibromofluoromethane
 Concen: 62.570 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060333.D
 Acq: 3 Mar 2020 16:35

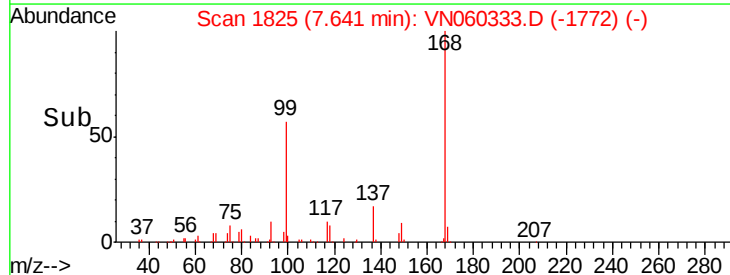
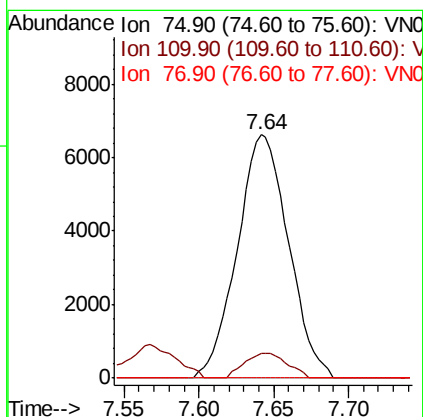
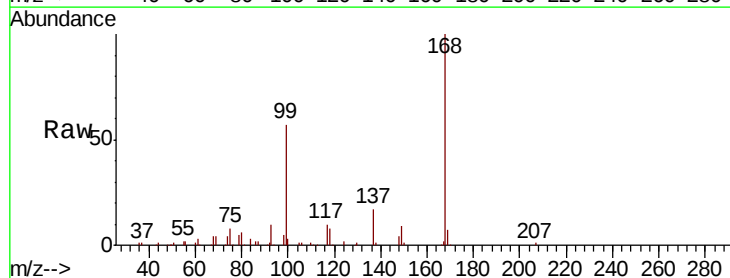
Instrument :
 MSVOA_N
 ClientSampled :

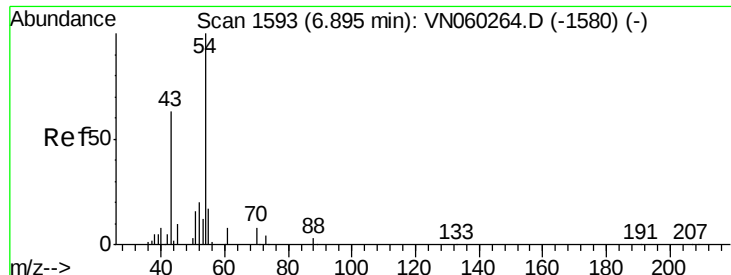
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.4	123.6
192	20.1	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.977 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060333.D
 Acq: 3 Mar 2020 16:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	17.3	52.0#
77	0.0	24.2	36.2#

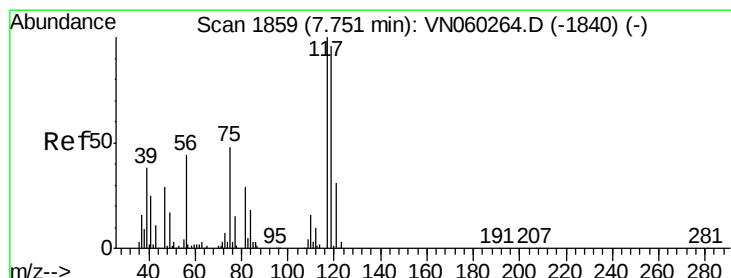
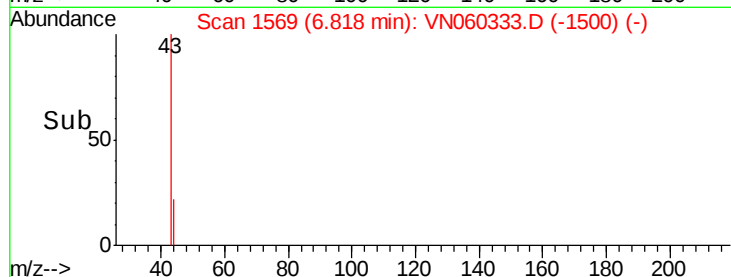
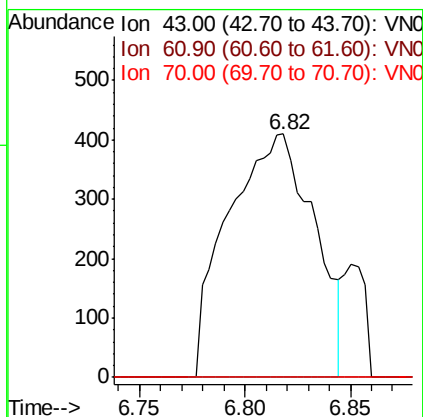
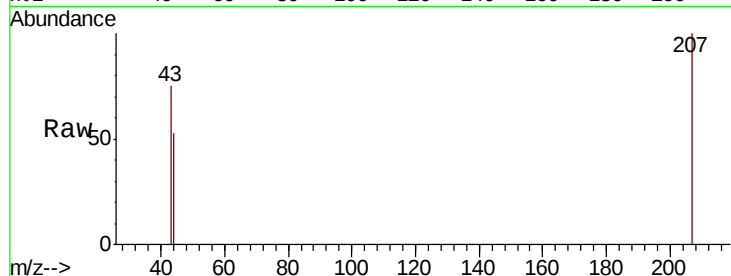




#37
Ethyl Acetate
Concen: 0.388 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. -0.08 min
Lab File: VN060333.D
Acq: 3 Mar 2020 16:35

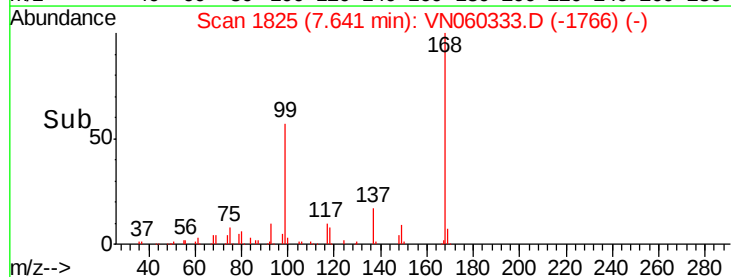
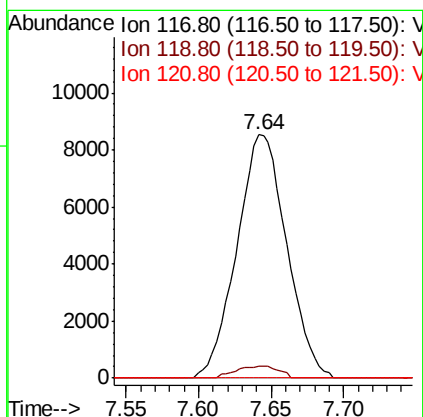
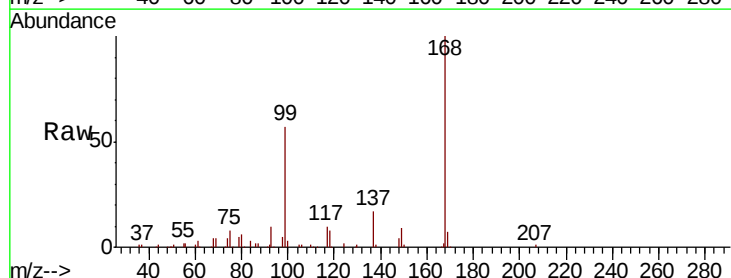
Instrument :
MSVOA_N
ClientSampleId :

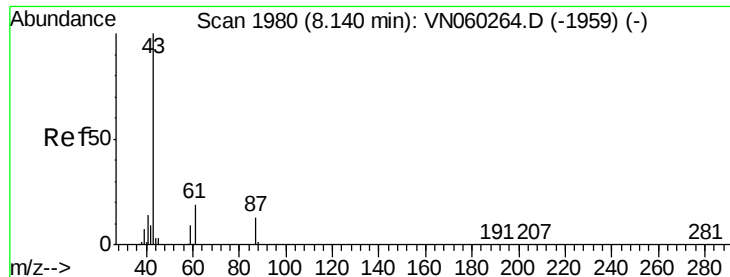
Tot Ion: 43 Resp: 1164
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 6.592 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060333.D
Acq: 3 Mar 2020 16:35

Tgt Ion: 117 Resp: 20337
Ion Ratio Lower Upper
117 100
119 4.8 76.7 115.1#
121 0.0 24.5 36.7#





#43

Isopropyl Acetate

Concen: 6.738 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060333.D

Acq: 3 Mar 2020 16:35

Instrument :

MSVOA_N

ClientSampleId :

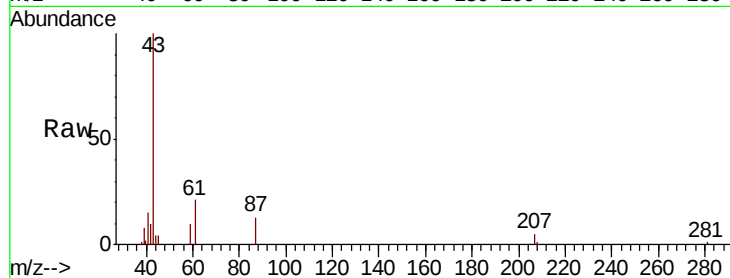
Tot Ion: 43 Resp: 35393

Ion Ratio Lower Upper

43 100

61 19.9 20.9 31.3#

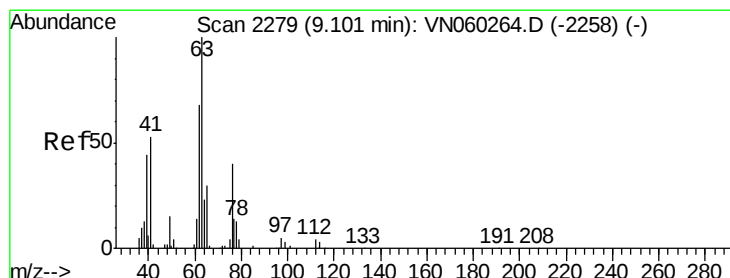
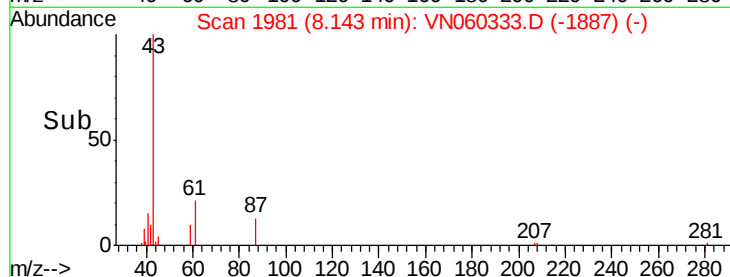
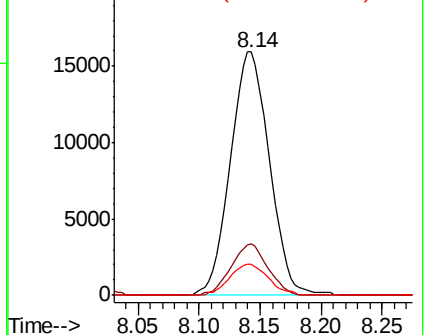
87 12.7 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060333.D (-1987) (-)

Ion 61.00 (60.70 to 61.70): VN060333.D (-1987) (-)

Ion 87.00 (86.70 to 87.70): VN060333.D (-1987) (-)



#45

1,2-Dichloropropane

Concen: 0.238 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060333.D

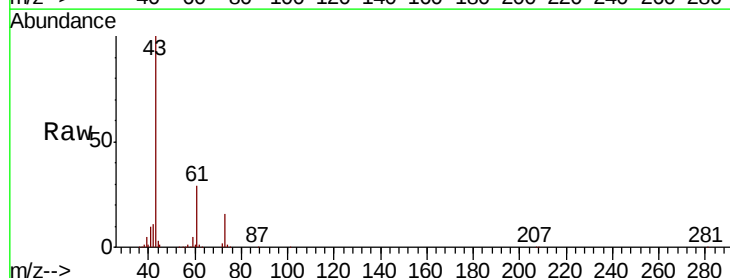
Acq: 3 Mar 2020 16:35

Tgt Ion: 63 Resp: 575

Ion Ratio Lower Upper

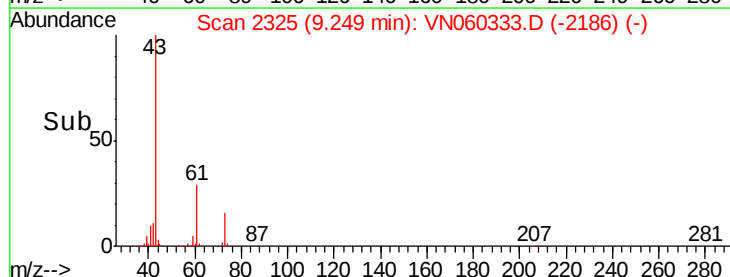
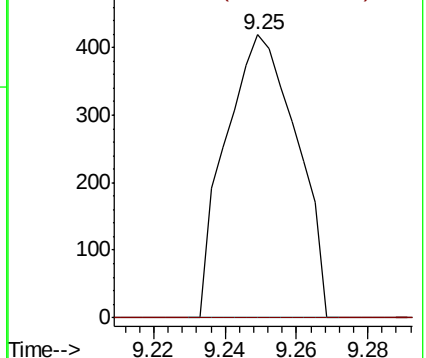
63 100

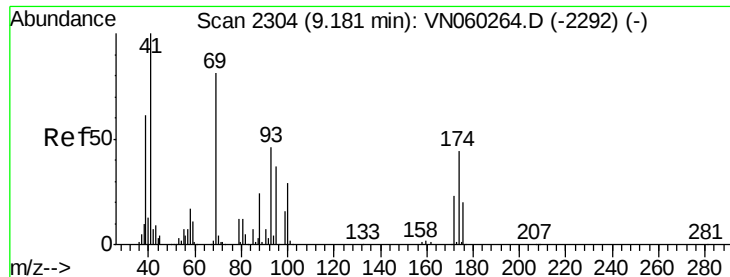
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060333.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060333.D (-2186) (-)

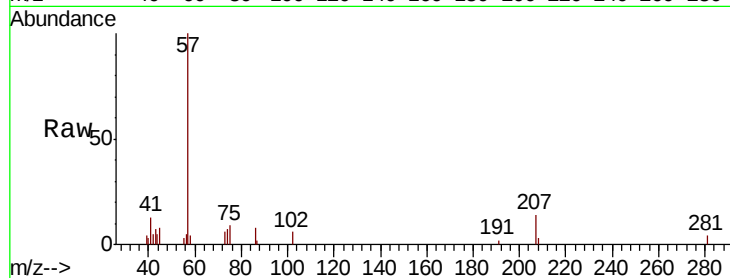




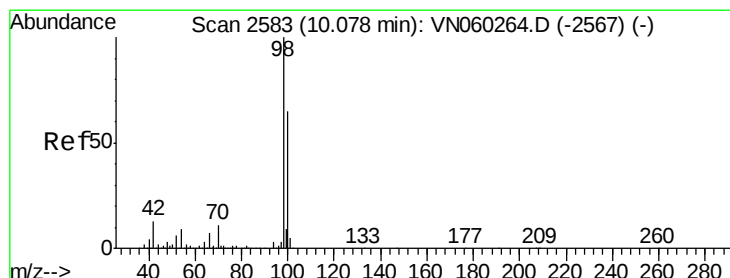
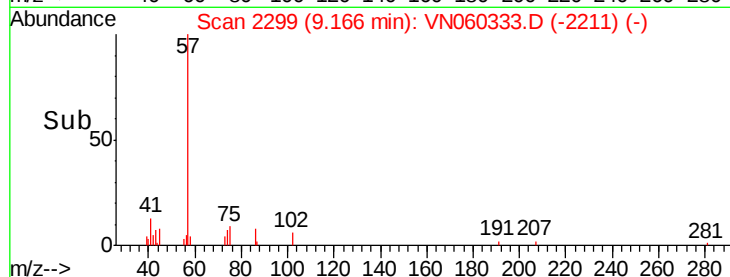
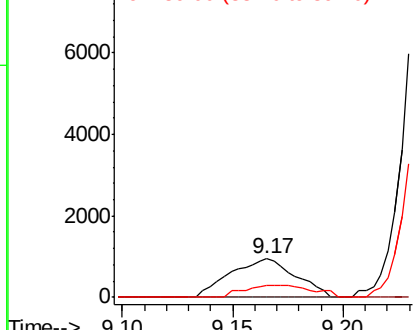
#48
Methvl methacrylate
Concen: 0.809 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN060333.D
Acq: 3 Mar 2020 16:35

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 1937
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#

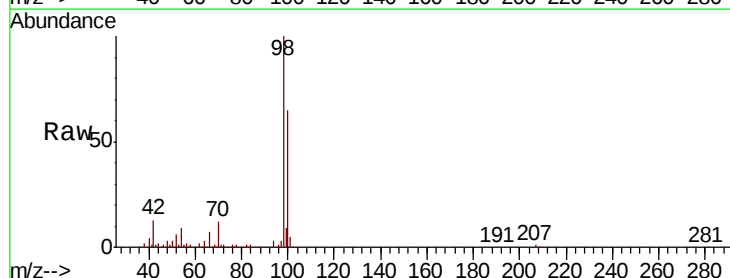


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

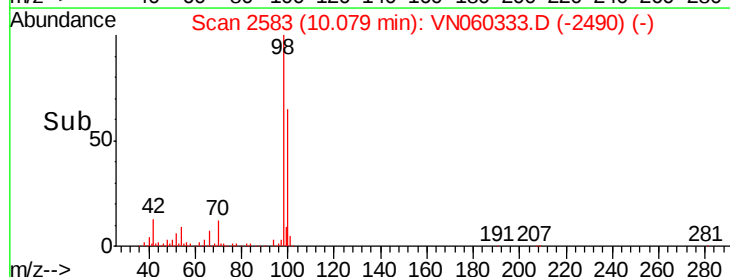
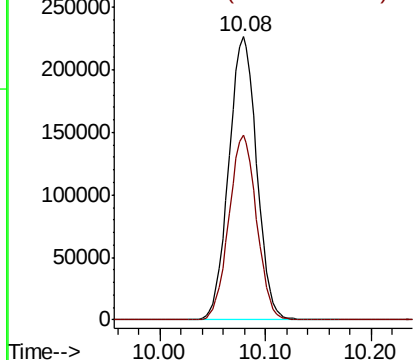


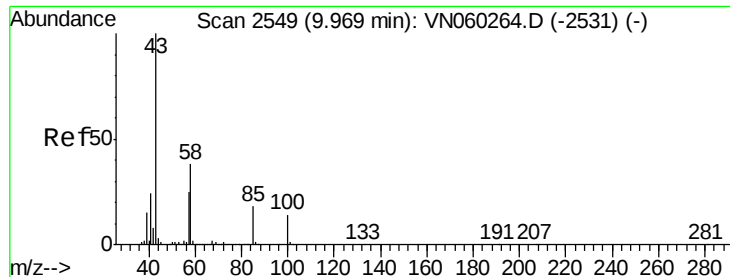
#50
Toluene-d8
Concen: 52.976 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060333.D
Acq: 3 Mar 2020 16:35

Tgt Ion: 98 Resp: 413766
Ion Ratio Lower Upper
98 100
100 64.7 52.2 78.2



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





#51

4-Methyl-2-Pentanone

Concen: 1.138 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060333.D

Acq: 3 Mar 2020 16:35

Instrument :

MSVOA_N

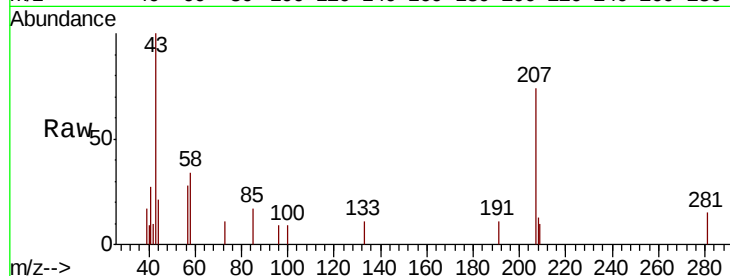
ClientSampleId :

Tot Ion: 43 Resp: 3390

Ion Ratio Lower Upper

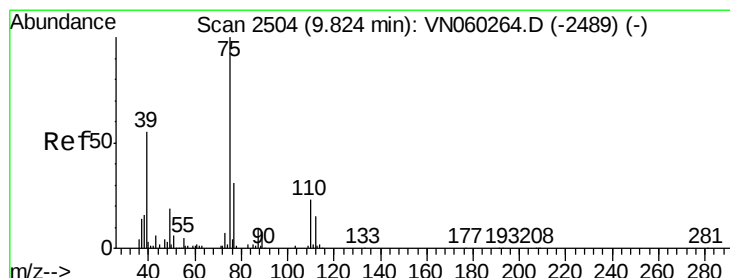
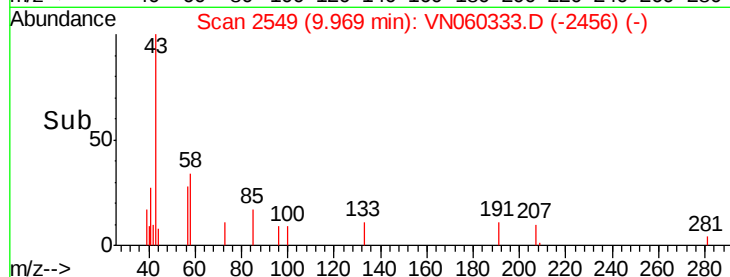
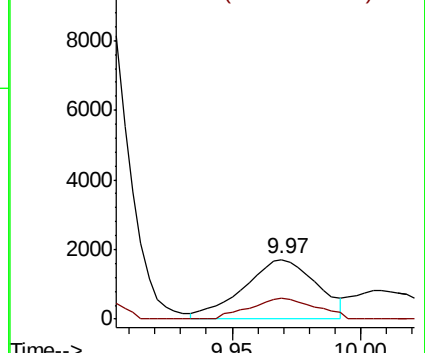
43 100

58 31.3 30.9 46.3



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

Ion 58.00 (57.70 to 58.70): VN060264.D (-2531) (-)



#54

cis-1,3-Dichloropropene

Concen: 3.746 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060333.D

Acq: 3 Mar 2020 16:35

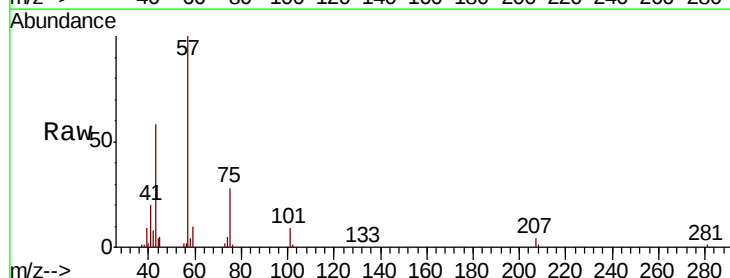
Tgt Ion: 75 Resp: 15134

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

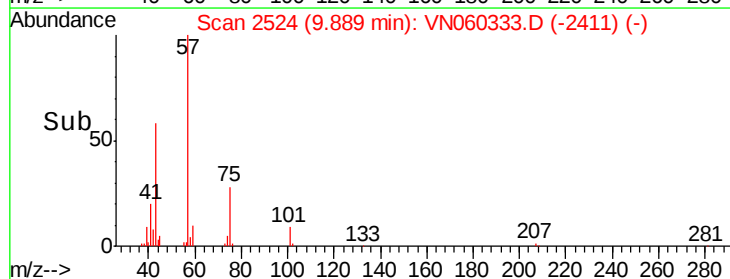
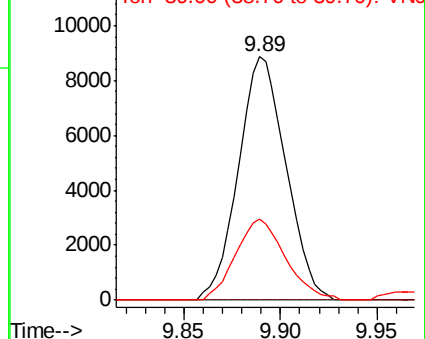
39 33.2 43.8 65.8#

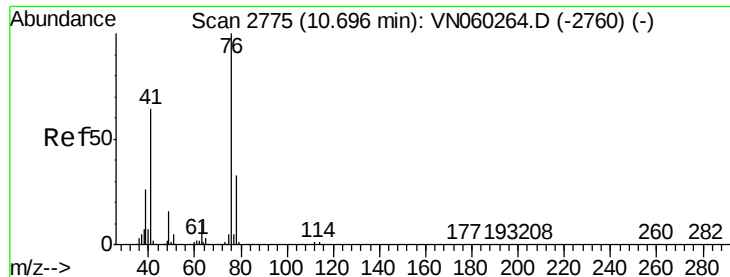


Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060264.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060264.D (-2489) (-)





#57

1,3-Dichloropropane

Concen: 0.646 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060333.D

Acq: 3 Mar 2020 16:35

Instrument :

MSVOA_N

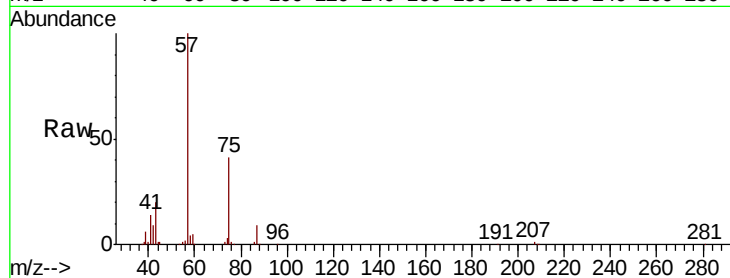
ClientSampleId :

Tot Ion: 76 Resp: 2454

Ion Ratio Lower Upper

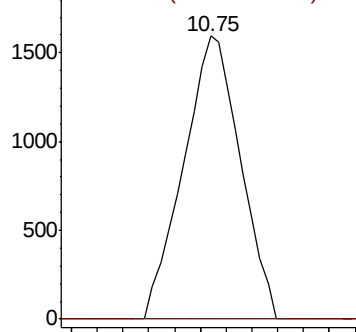
76 100

78 0.0 26.2 39.2#

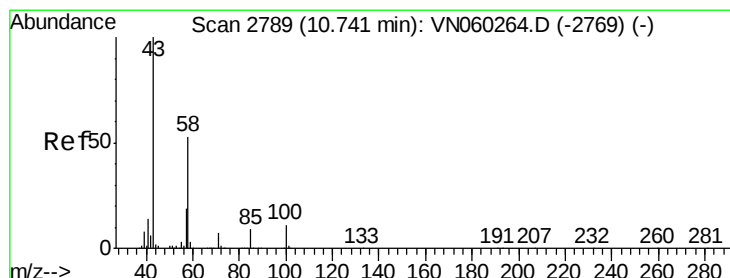
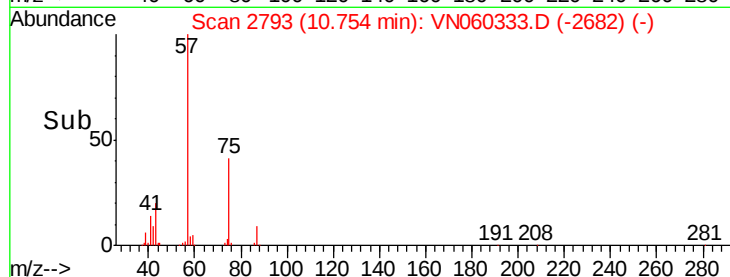


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 16.776 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060333.D

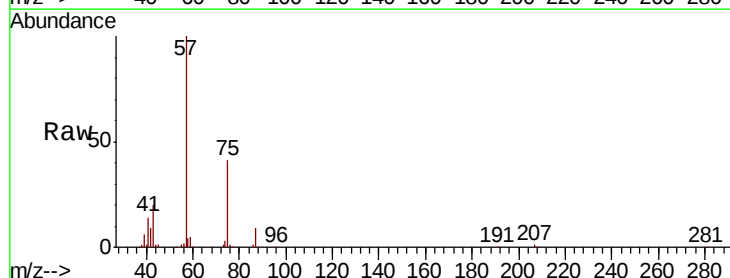
Acq: 3 Mar 2020 16:35

Tgt Ion: 43 Resp: 36682

Ion Ratio Lower Upper

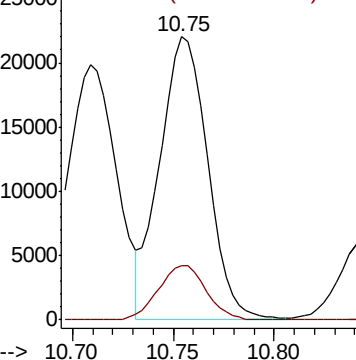
43 100

58 18.9 26.5 79.5#

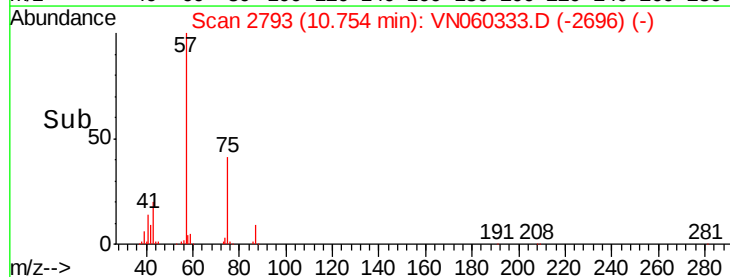


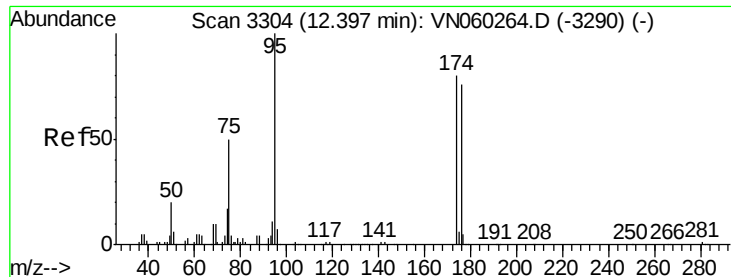
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time--> 10.70 10.75 10.80

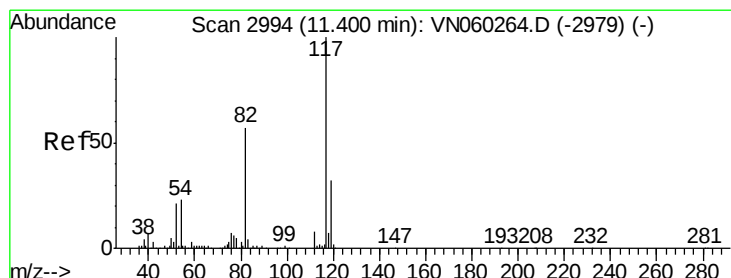
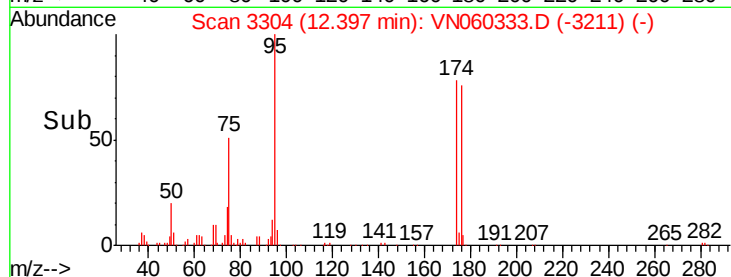
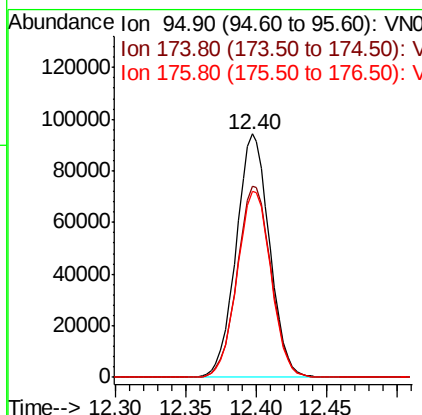
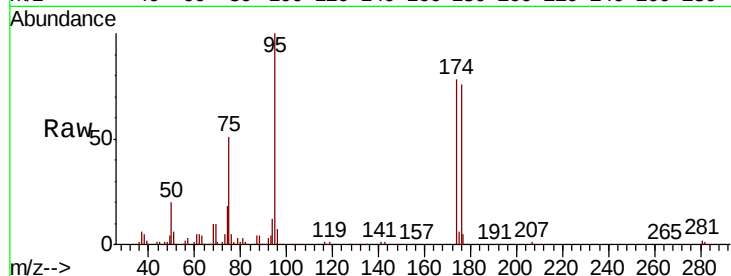




#62
4-Bromofluorobenzene
Concen: 52.701 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060333.D
Acq: 3 Mar 2020 16:35

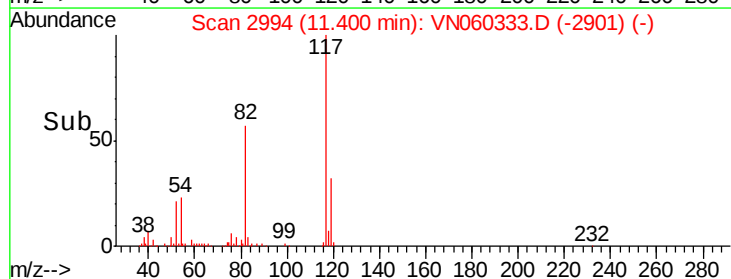
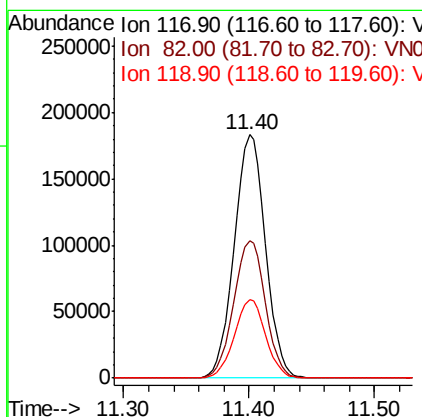
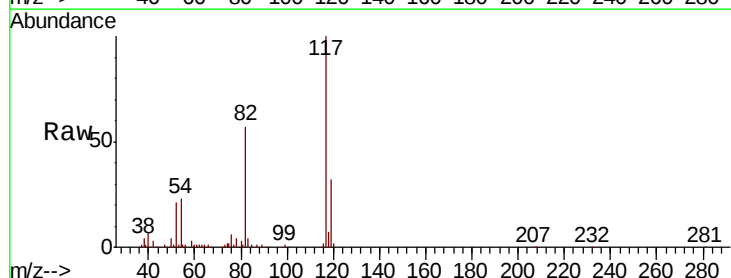
Instrument :
MSVOA_N
ClientSampleId :

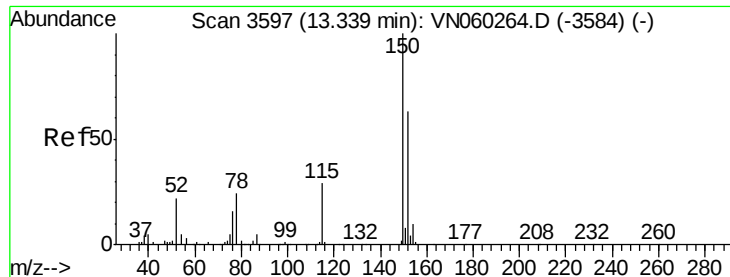
Tot Ion: 95 Resp: 156034
Ion Ratio Lower Upper
95 100
174 80.0 0.0 159.2
176 77.7 0.0 153.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060333.D
Acq: 3 Mar 2020 16:35

Tgt Ion: 117 Resp: 316940
Ion Ratio Lower Upper
117 100
82 56.6 45.8 68.6
119 32.3 25.8 38.8



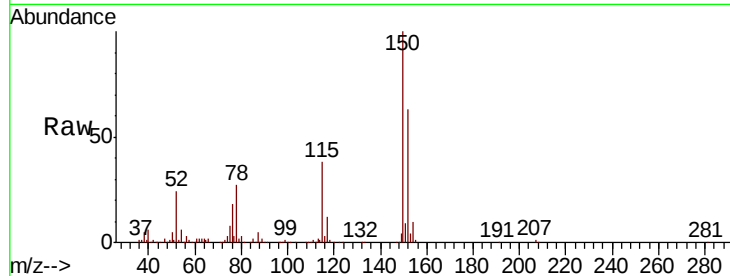


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060333.D
Acq: 3 Mar 2020 16:35

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.1	30.0	90.0
150	157.5	0.0	349.6

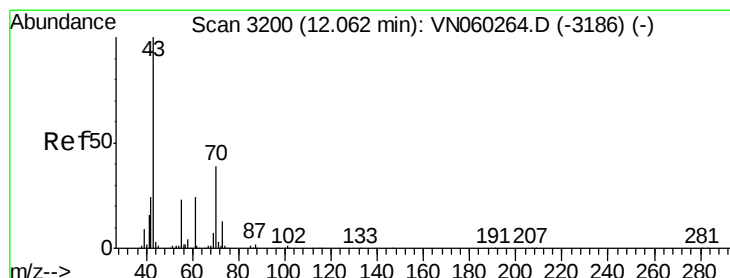
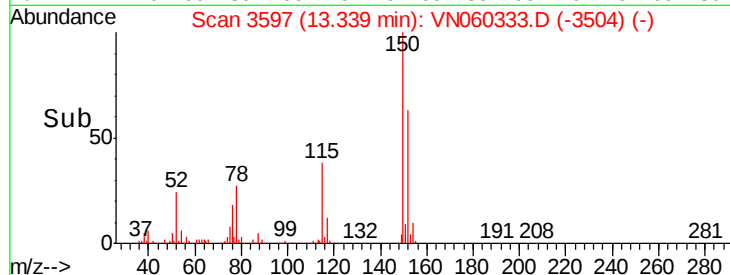
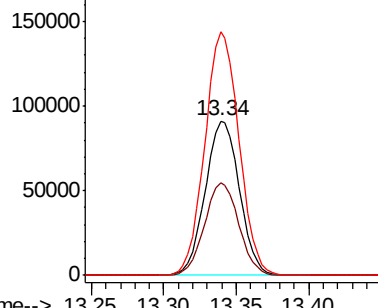


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

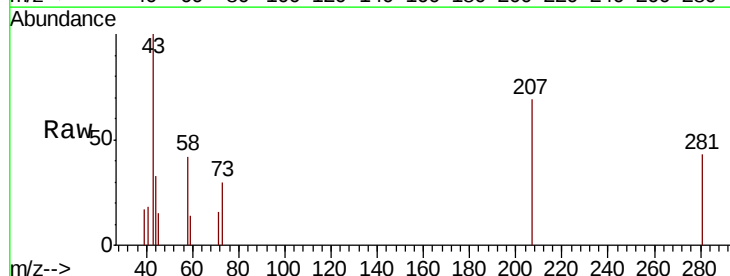
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 0.417 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN060333.D
Acq: 3 Mar 2020 16:35

Tgt 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#



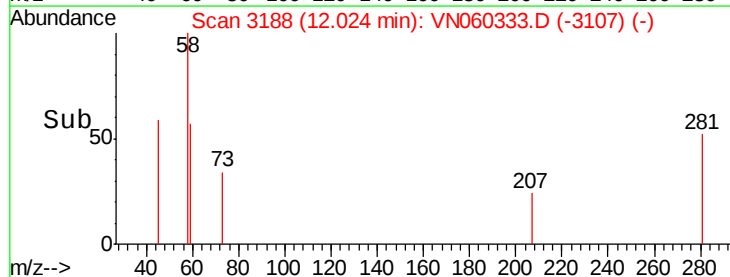
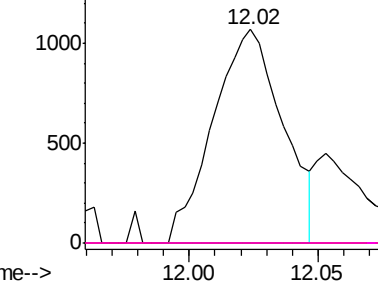
Abundance

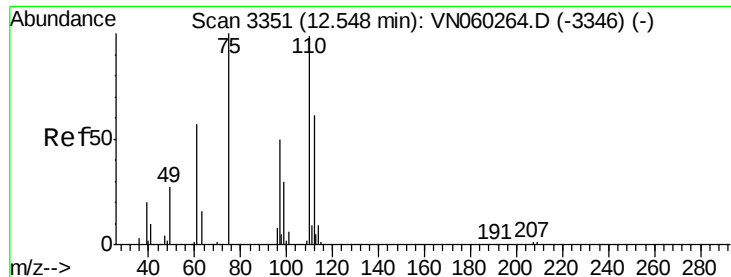
Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 24.686 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060333.D

Acq: 3 Mar 2020 16:35

Instrument :

MSVOA_N

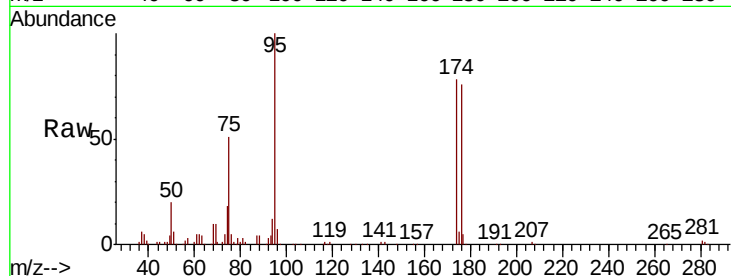
ClientSampleId :

Tot Ion: 75 Resp: 80840

Ion Ratio Lower Upper

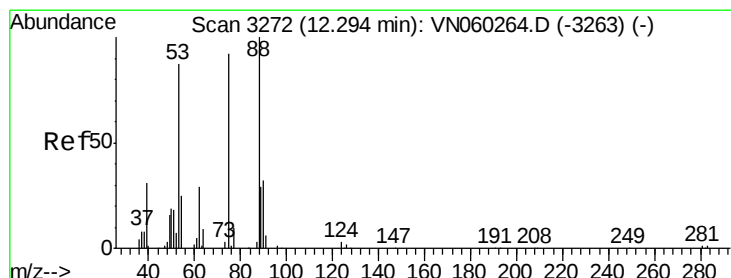
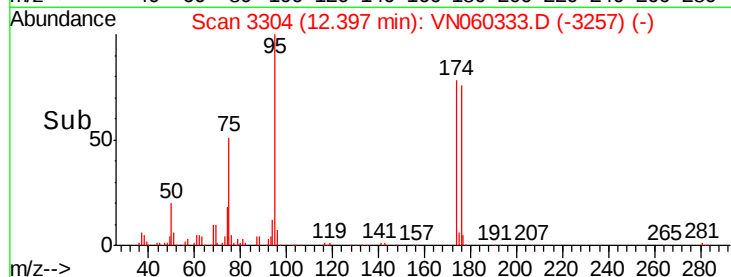
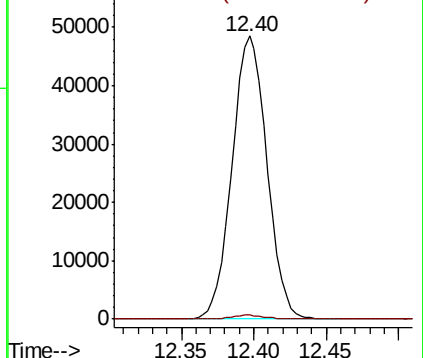
75 100

77 1.3 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: 68.145 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060333.D

Acq: 3 Mar 2020 16:35

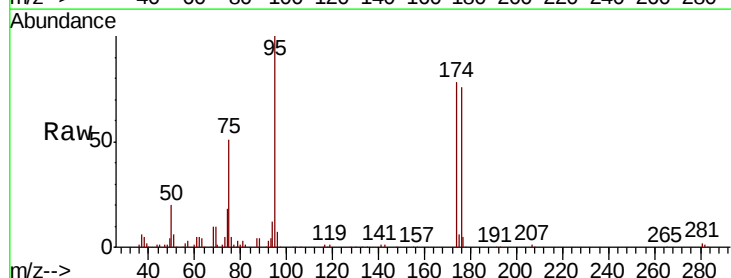
Tgt Ion: 75 Resp: 80840

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

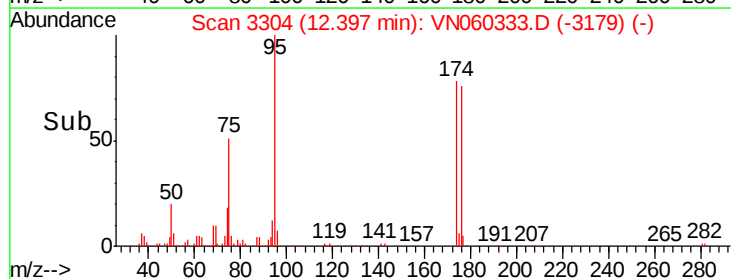
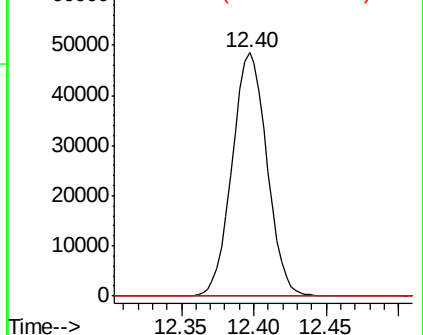
89 0.0 57.1 85.7#

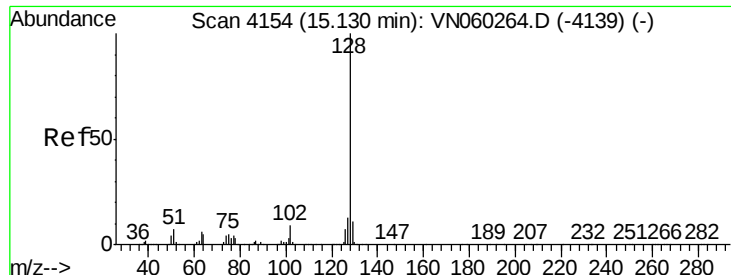


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN060333.D

Acq: 3 Mar 2020 16:35

Instrument :

MSVOA_N

ClientSampleId :

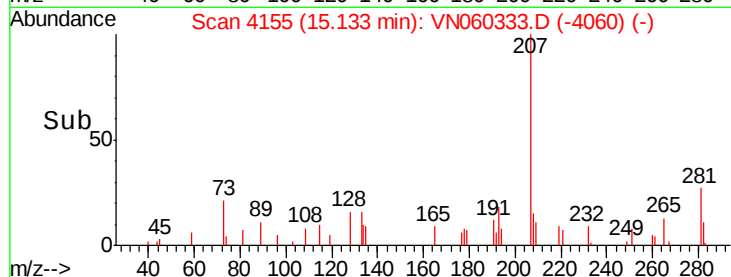
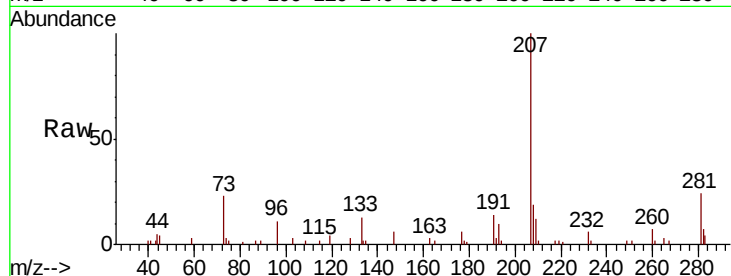
Tot Ion:128 Resp: 358

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

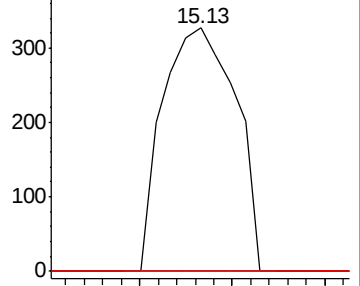
129 0.0 8.6 13.0#



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



Time-->