

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100520\
 Data File : VN063866.D
 Acq On : 5 Oct 2020 13:21
 Operator : JC/MD
 Sample : L4242-21
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
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Quant Time: Oct 06 01:38:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	236904	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	427952	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	429741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	165531	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	200402	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
35) Dibromofluoromethane	7.55	113	141507	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	
50) Toluene-d8	10.06	98	543568	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
62) 4-Bromofluorobenzene	12.38	95	207565	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	

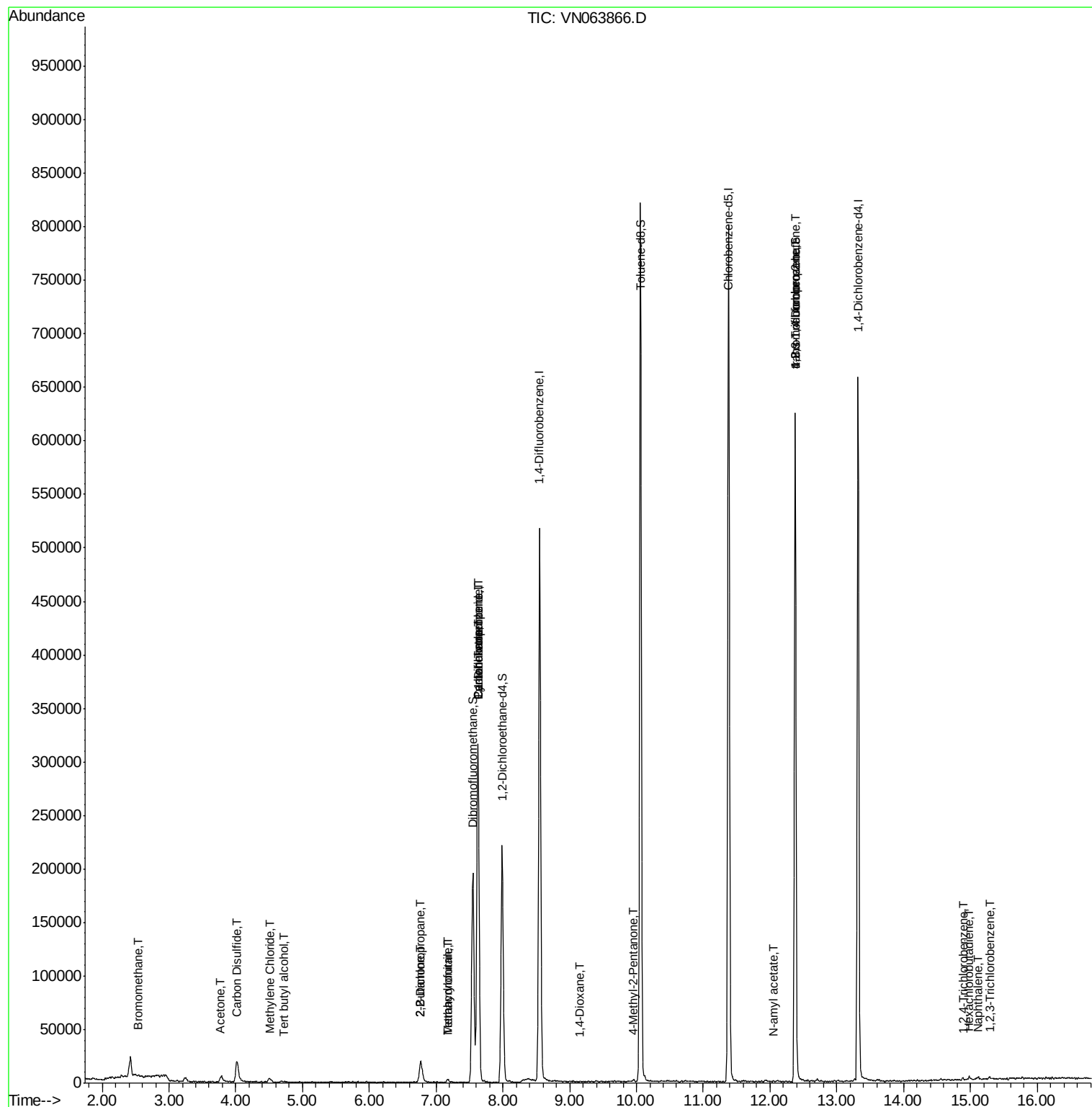
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	505	0.273	ug/l #	48
11) Tert butyl alcohol	4.71	59	92	0.213	ug/l #	71
16) Acetone	3.76	43	2738	2.273	ug/l	94
17) Carbon Disulfide	4.02	76	1500	0.930	ug/l #	76
20) Methylene Chloride	4.51	84	2405	0.968	ug/l #	66
25) 2-Butanone	6.78	43	376	0.220	ug/l #	51
26) 2,2-Dichloropropane	6.78	77	1220	0.256	ug/l #	54
29) Tetrahydrofuran	7.16	42	744	0.649	ug/l #	73
31) Cyclohexane	7.63	56	6049	1.331	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	20937	4.829	ug/l #	52
38) Carbon Tetrachloride	7.62	117	26616	5.475	ug/l #	15
41) Methacrylonitrile	7.16	41	609	0.318	ug/l #	28
49) 1,4-Dioxane	9.15	88	30	0.601	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	2093	0.502	ug/l #	77
74) N-amyl acetate	12.05	43	584	2.315	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	116526	31.934	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	116526	91.975	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.89	180	645	1.952	ug/l #	71
94) Hexachlorobutadiene	14.98	225	584	0.472	ug/l #	71
95) Naphthalene	15.11	128	2654	2.210	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.28	180	678	1.803	ug/l #	26

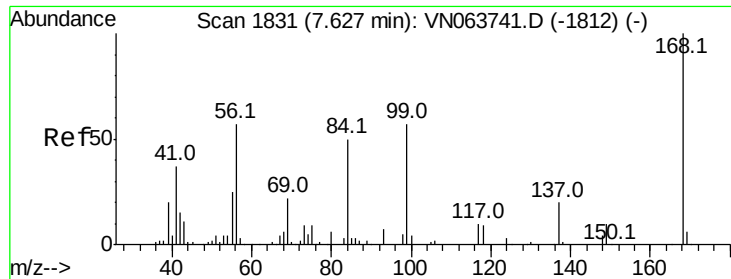
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063866.D

Acq: 5 Oct 2020 13:21

Instrument :

MSVOA_N

ClientSampled :

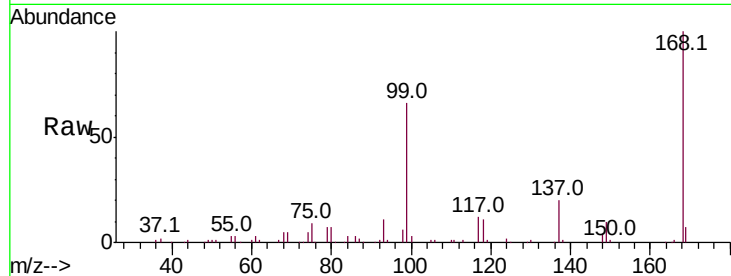
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Tot Ion:168 Resp: 236904

Ion Ratio Lower Upper

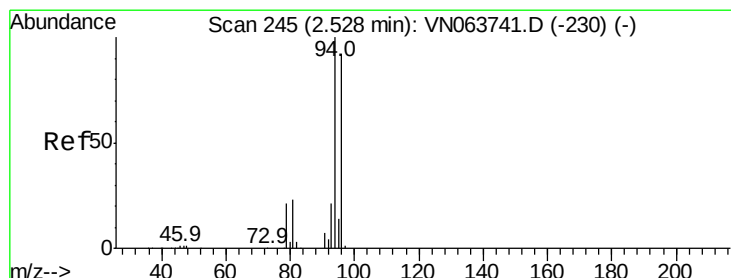
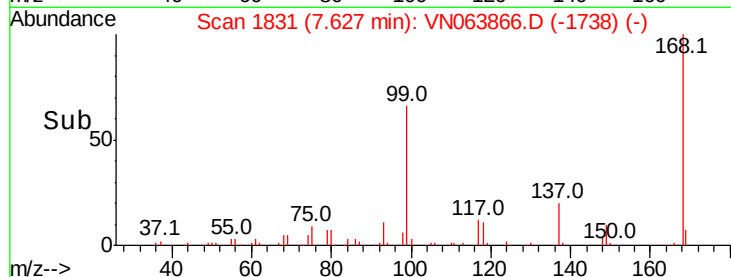
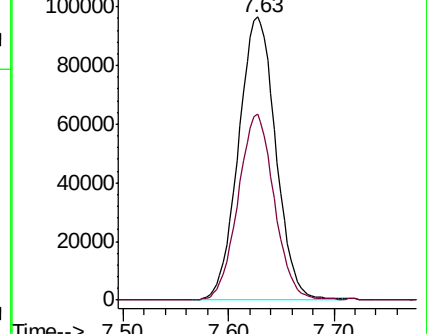
168 100

99 66.0 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: 0.273 ug/l

RT: 2.53 min Scan# 247

Delta R.T. 0.01 min

Lab File: VN063866.D

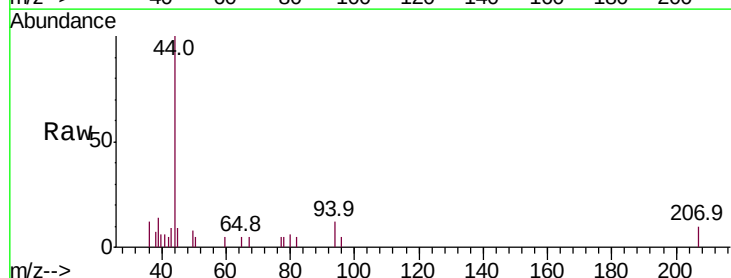
Acq: 5 Oct 2020 13:21

Tgt Ion: 94 Resp: 505

Ion Ratio Lower Upper

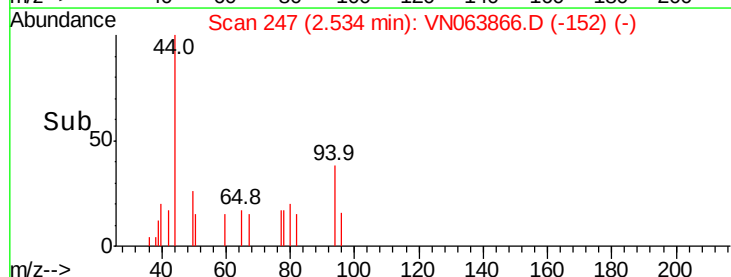
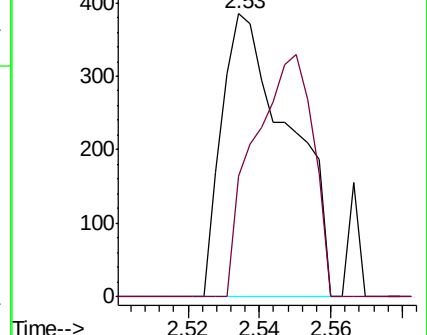
94 100

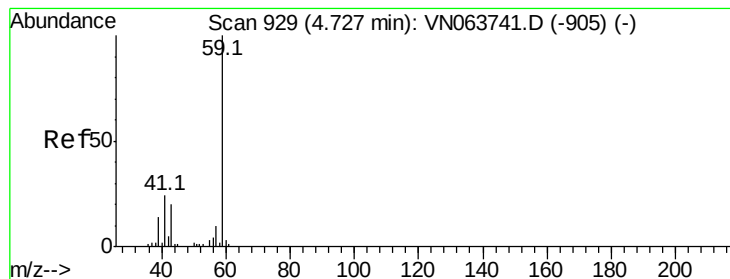
96 42.6 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#11

Tert butyl alcohol

Concen: 0.213 ug/l

RT: 4.71 min Scan# 925

Delta R.T. -0.01 min

Lab File: VN063866.D

Acq: 5 Oct 2020 13:21

Instrument :

MSVOA_N

ClientSampled :

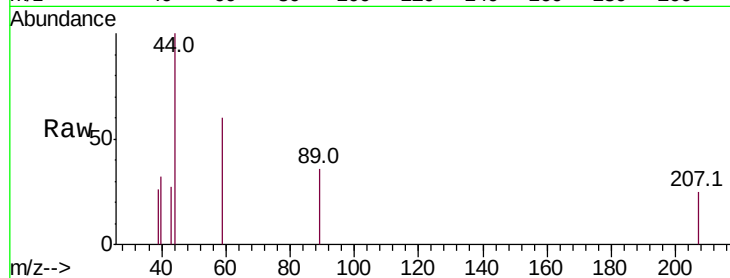
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Tot Ion: 59 Resp: 92

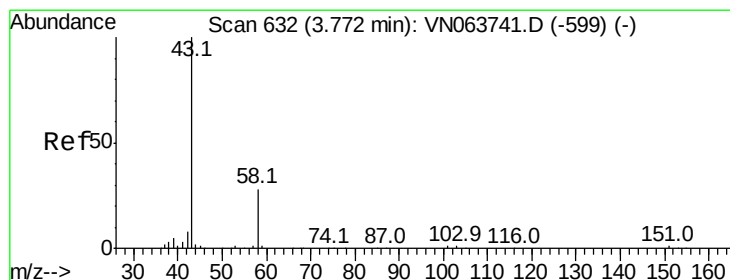
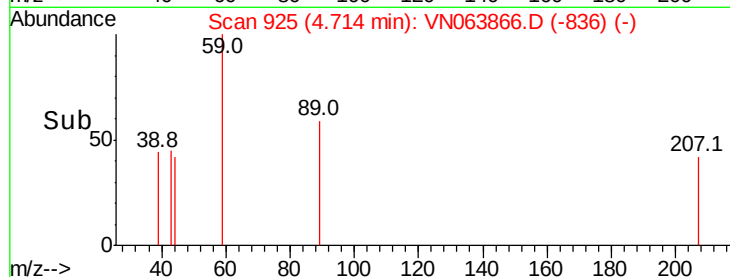
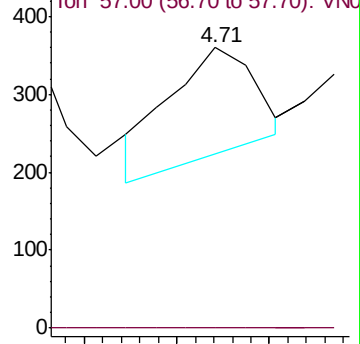
Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0



#16

Acetone

Concen: 2.273 ug/l

RT: 3.76 min Scan# 629

Delta R.T. -0.01 min

Lab File: VN063866.D

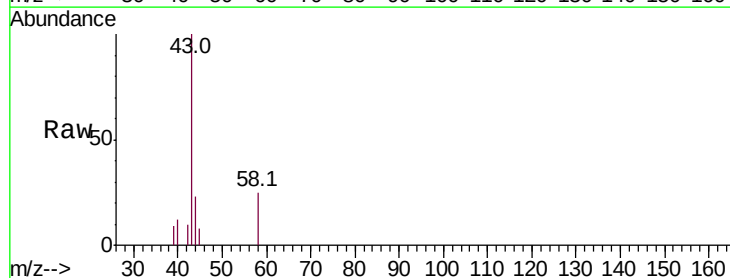
Acq: 5 Oct 2020 13:21

Tgt Ion: 43 Resp: 2738

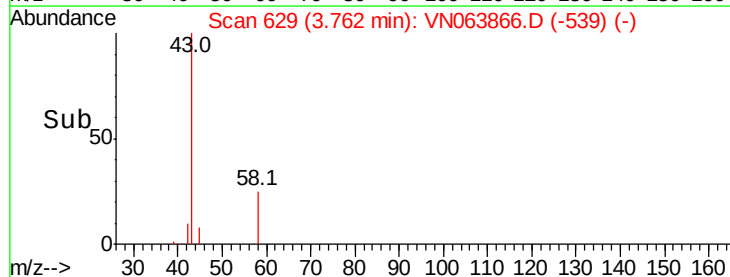
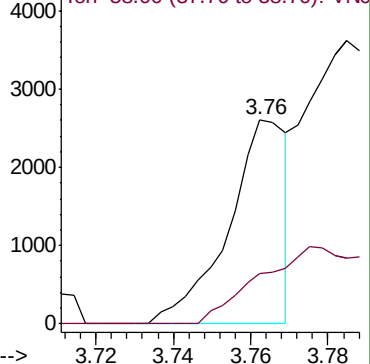
Ion Ratio Lower Upper

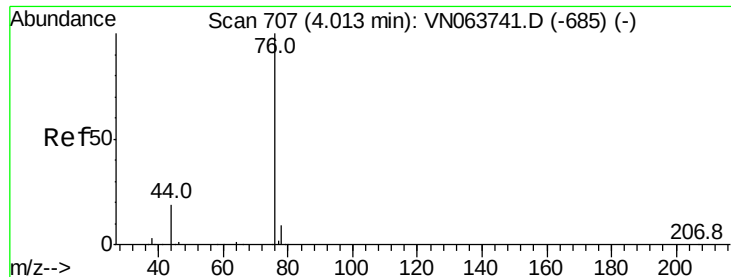
43 100

58 24.8 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0





#17

Carbon Disulfide

Concen: 0.930 ug/l

RT: 4.02 min Scan# 710

Delta R.T. 0.01 min

Lab File: VN063866.D

Acq: 5 Oct 2020 13:21

Instrument :

MSVOA_N

ClientSampled :

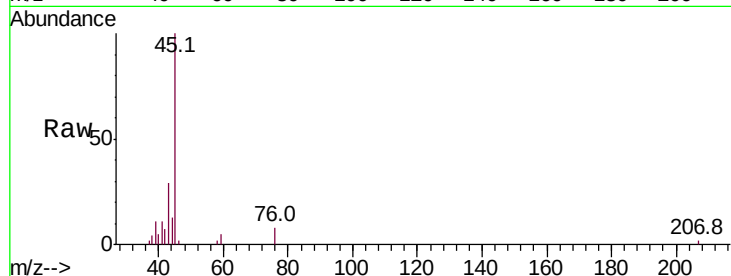
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Tot Ion: 76 Resp: 1500

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.02

800

600

400

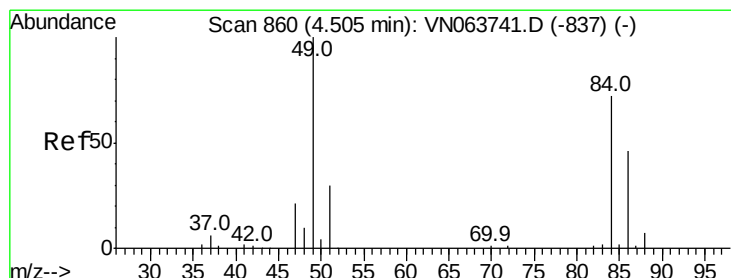
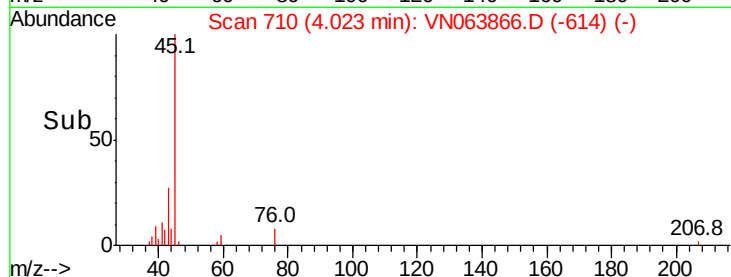
200

0

4.00

4.05

Time-->



#20

Methylene Chloride

Concen: 0.968 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.00 min

Lab File: VN063866.D

Acq: 5 Oct 2020 13:21

Tgt Ion: 84 Resp: 2405

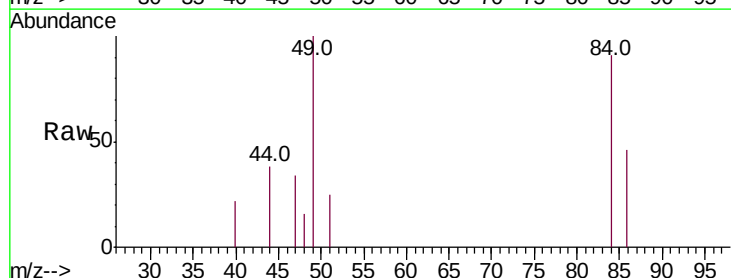
Ion Ratio Lower Upper

84 100

49 83.3 110.4 165.6#

51 27.7 33.3 49.9#

86 51.0 50.7 76.1



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

1500

1000

500

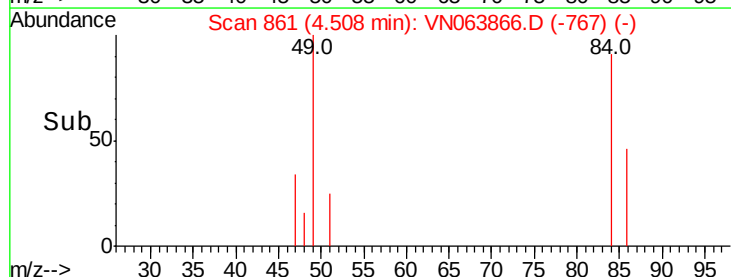
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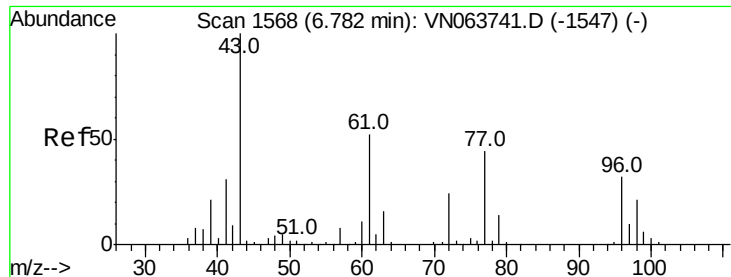
4.45

4.50

4.55

Time-->

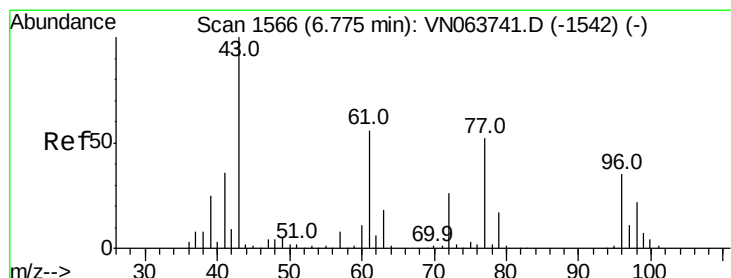
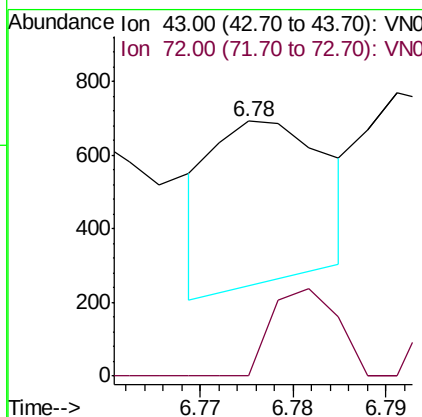
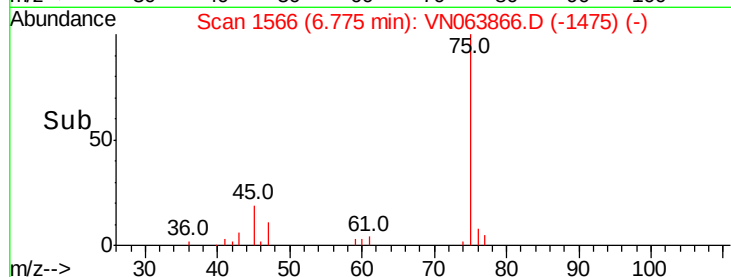
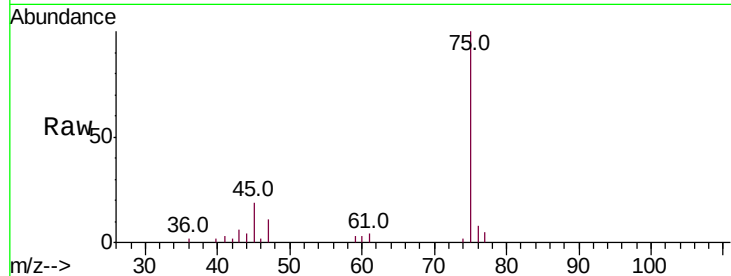




#25
2-Butanone
Concen: 0.220 ug/l
RT: 6.78 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VN063866.D
Acq: 5 Oct 2020 13:21

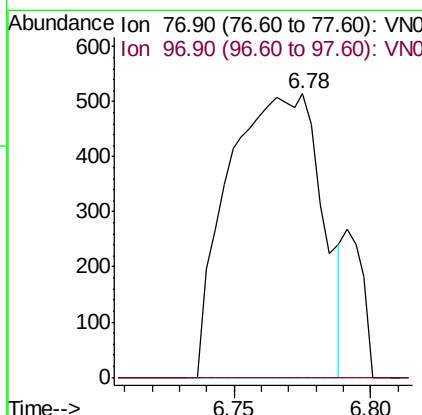
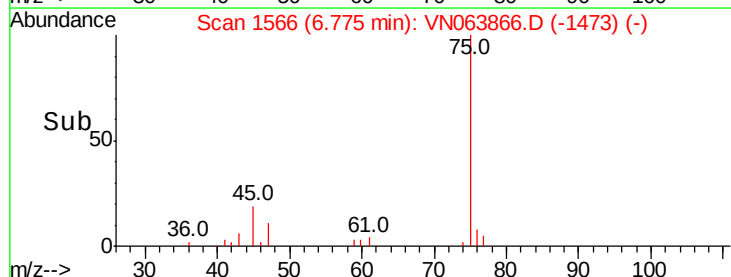
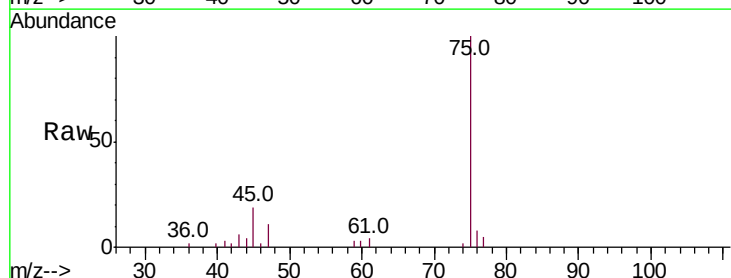
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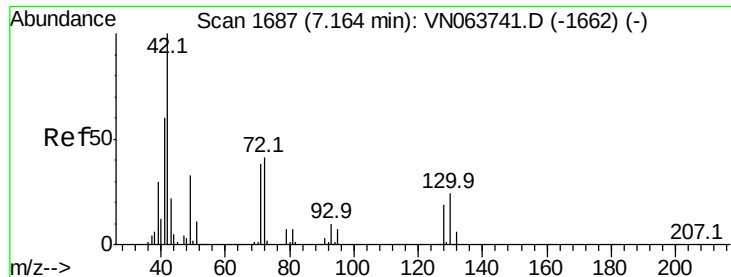
Tot Ion: 43 Resp: 376
Ion Ratio Lower Upper
43 100
72 0.0 19.3 28.9#



#26
2,2-Dichloropropane
Concen: 0.256 ug/l
RT: 6.78 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VN063866.D
Acq: 5 Oct 2020 13:21

Tgt Ion: 77 Resp: 1220
Ion Ratio Lower Upper
77 100
97 0.0 10.8 32.3#

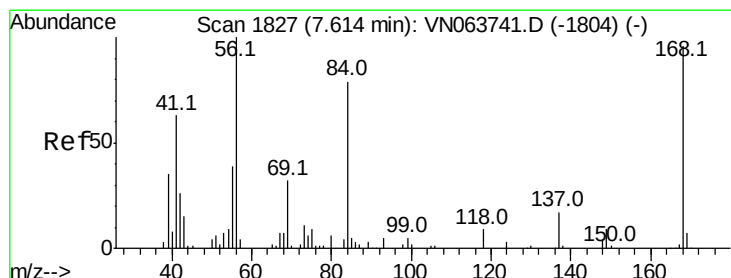
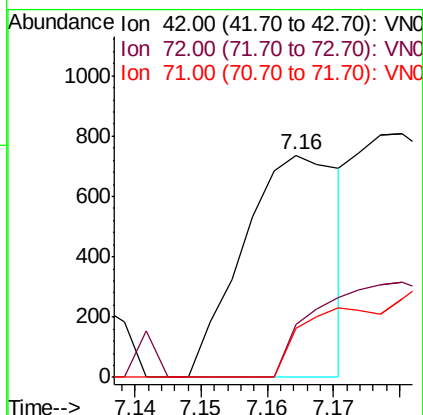
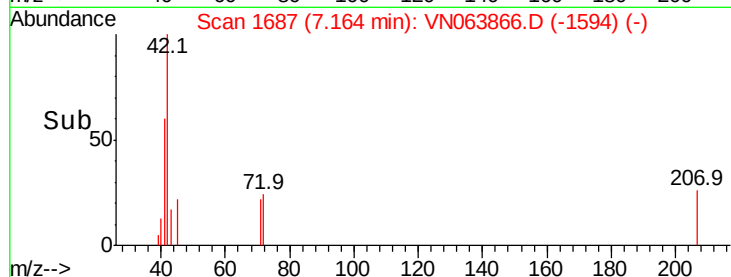
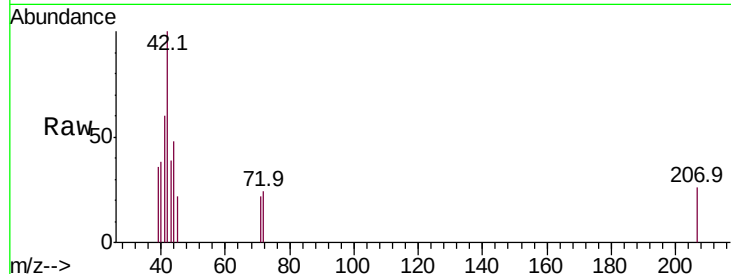




#29
Tetrahydrofuran
Concen: 0.649 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN063866.D
Acq: 5 Oct 2020 13:21

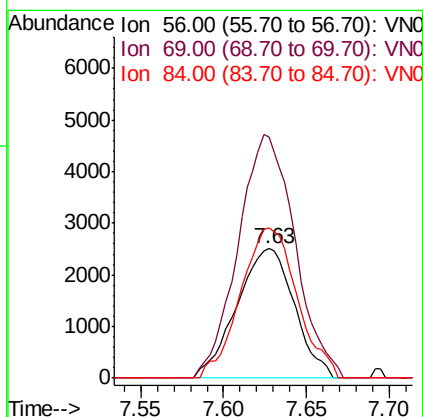
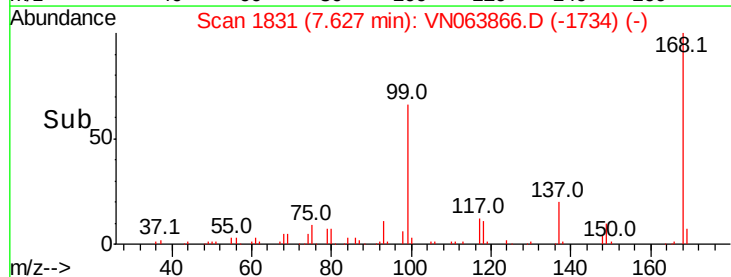
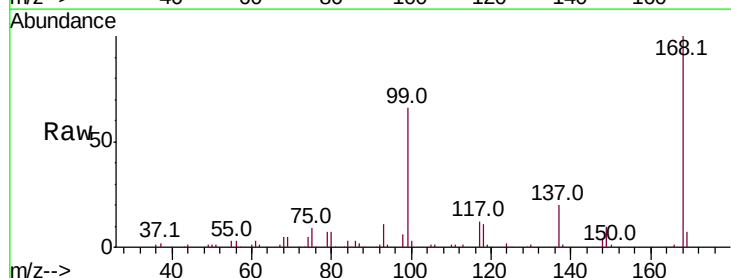
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MSVOA_N
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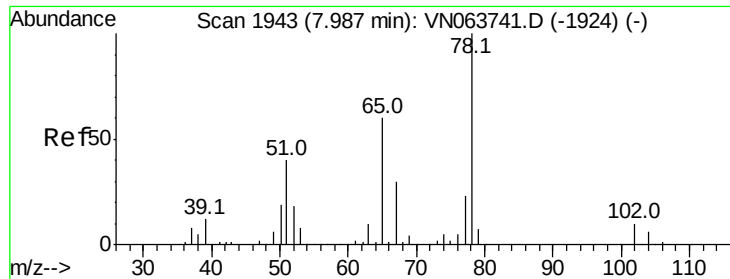
Tot Ion: 42 Resp: 744
Ion Ratio Lower Upper
42 100
72 58.3 32.8 49.2#
71 54.2 30.6 45.8#



#31
Cyclohexane
Concen: 1.331 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063866.D
Acq: 5 Oct 2020 13:21

Tgt Ion: 56 Resp: 6049
Ion Ratio Lower Upper
56 100
69 186.6 25.4 38.2#
84 116.5 63.3 94.9#

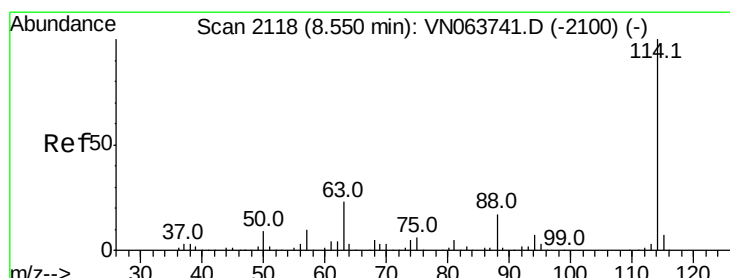
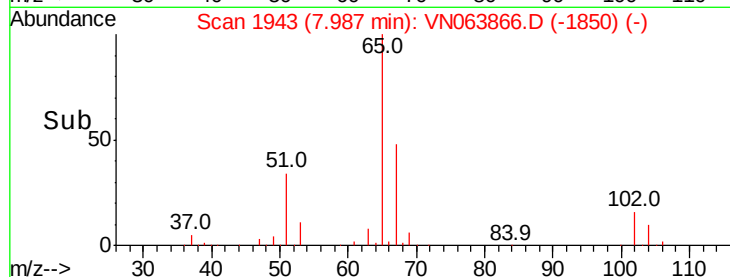
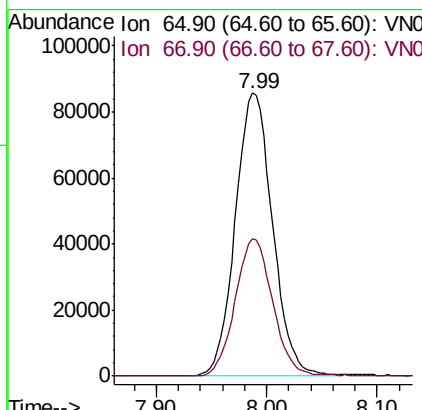
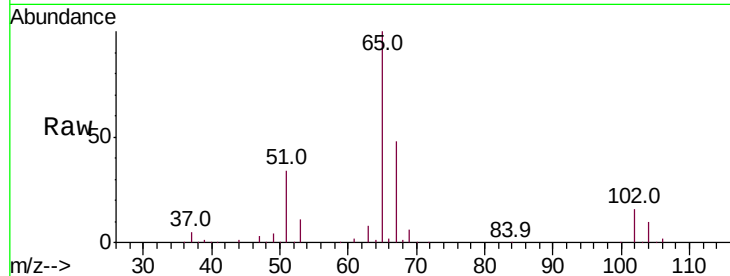




#33
 1,2-Dichloroethane-d4
 Concen: 51.204 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN063866.D
 Acq: 5 Oct 2020 13:21

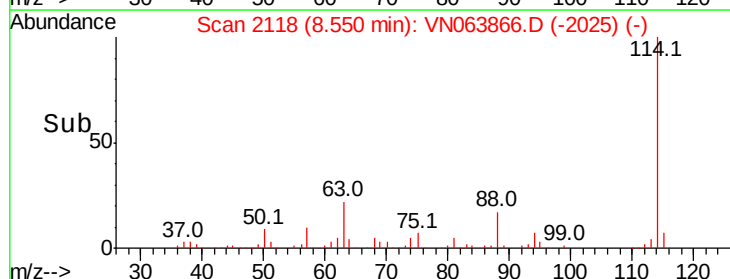
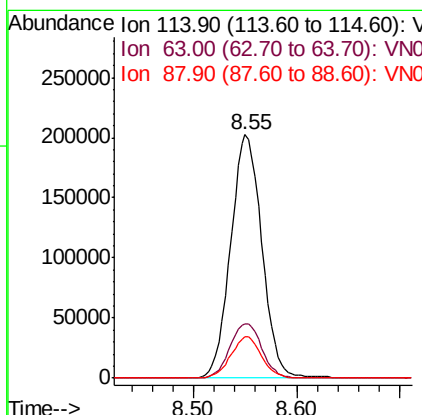
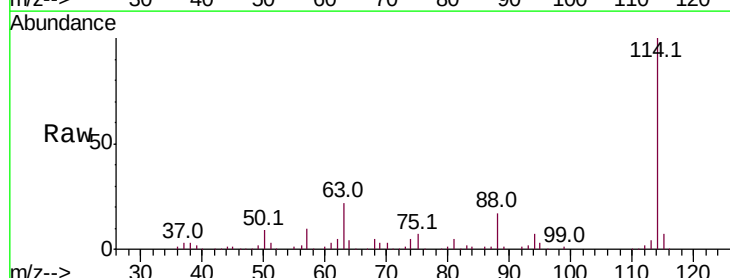
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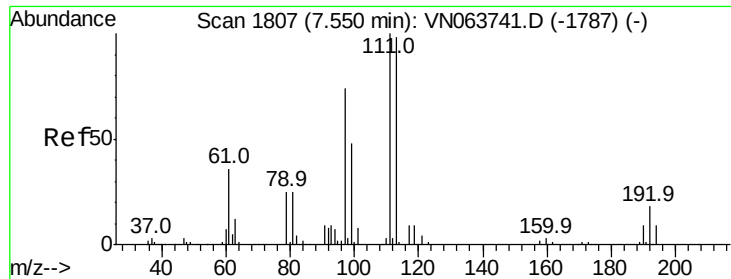
Tot Ion: 65 Resp: 200402
 Ion Ratio Lower Upper
 65 100
 67 48.8 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063866.D
 Acq: 5 Oct 2020 13:21

Tgt Ion: 114 Resp: 427952
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 45.0
 88 17.2 0.0 34.0

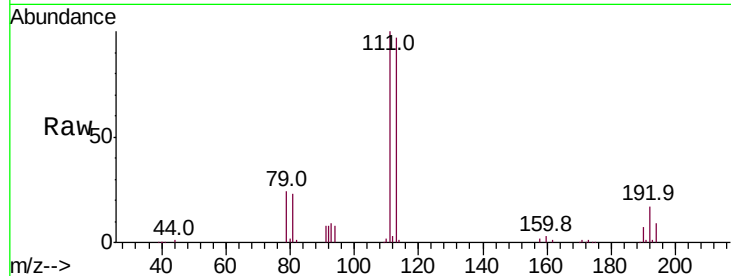




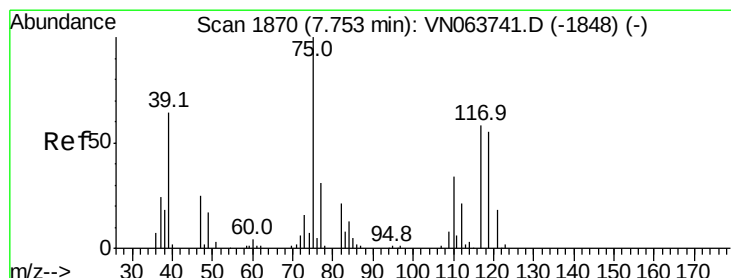
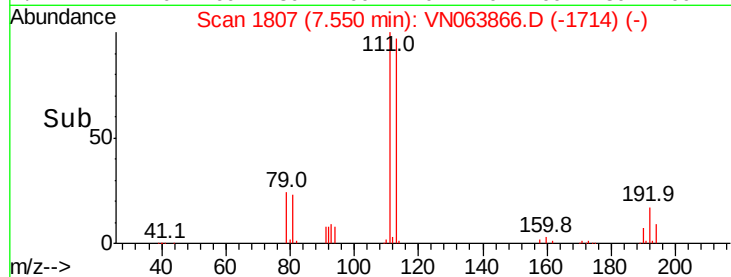
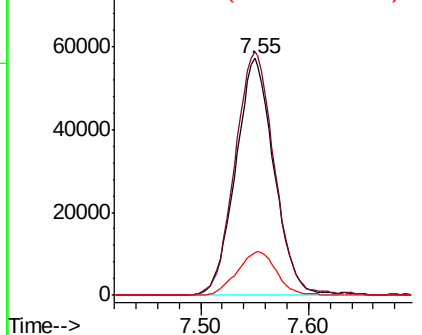
#35
 Dibromofluoromethane
 Concen: 47.654 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063866.D
 Acq: 5 Oct 2020 13:21

Instrument :
 MSVOA_N
 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
113	100		
111	105.3	81.8	122.8
192	18.9	14.2	21.2

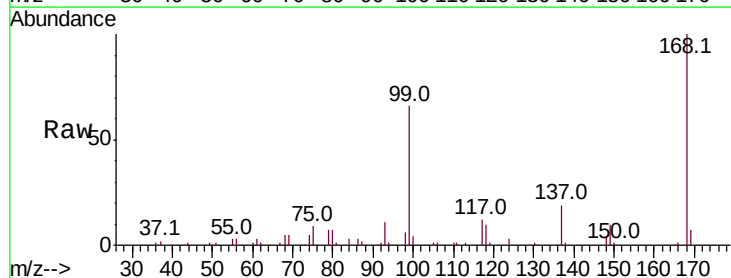


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

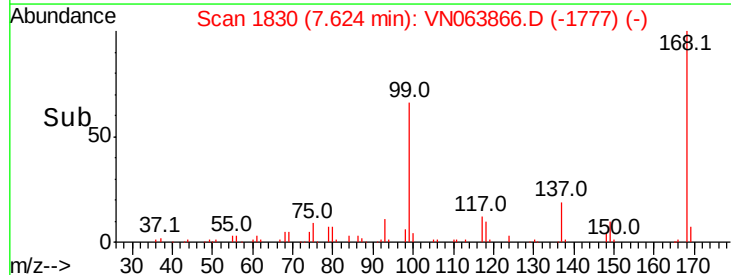
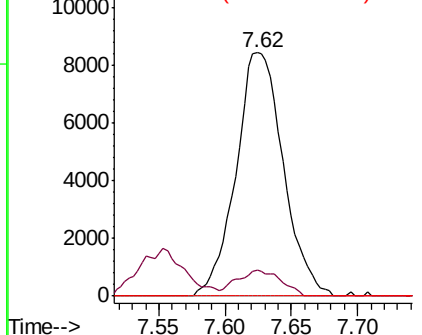


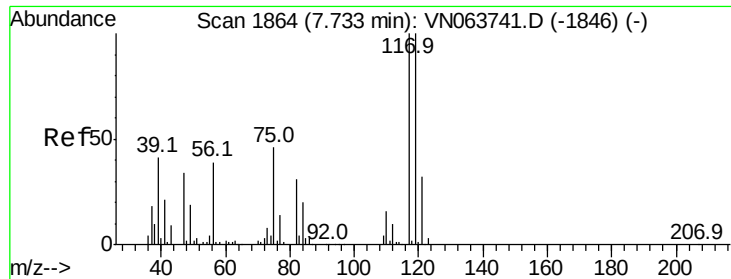
#36
 1,1-Dichloropropene
 Concen: 4.829 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063866.D
 Acq: 5 Oct 2020 13:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.0	16.9	50.6#
77	0.0	24.5	36.7#



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: 5.475 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063866.D

Acq: 5 Oct 2020 13:21

Instrument :

MSVOA_N

ClientSampled :

FIELD-BLANK

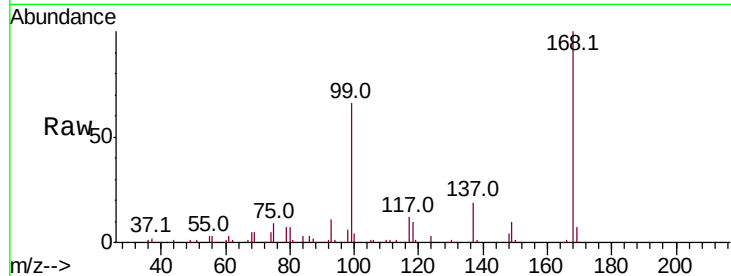
Tot Ion:117 Resp: 26616

Ion Ratio Lower Upper

117 100

119 5.7 80.1 120.1#

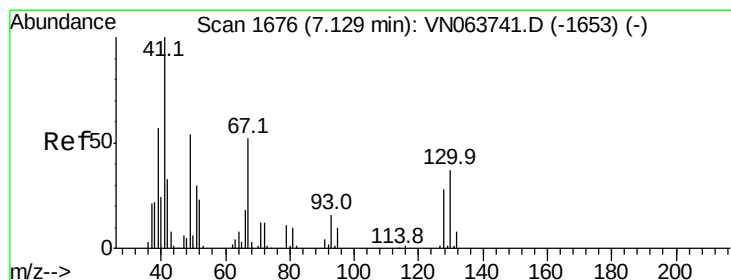
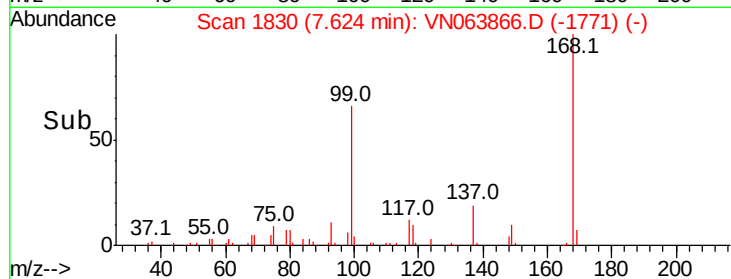
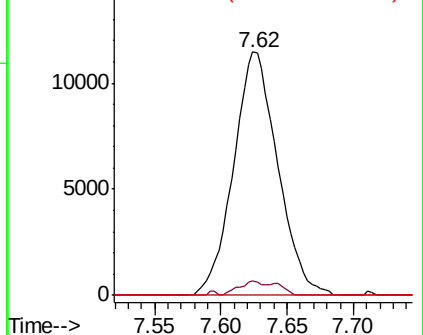
121 0.0 25.7 38.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.318 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. 0.04 min

Lab File: VN063866.D

Acq: 5 Oct 2020 13:21

Tgt Ion: 41 Resp: 609

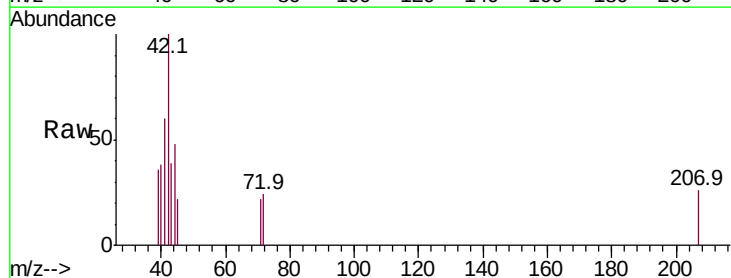
Ion Ratio Lower Upper

41 100

39 9.4 42.5 63.7#

67 0.0 57.4 86.2#

52 0.0 26.9 40.3#

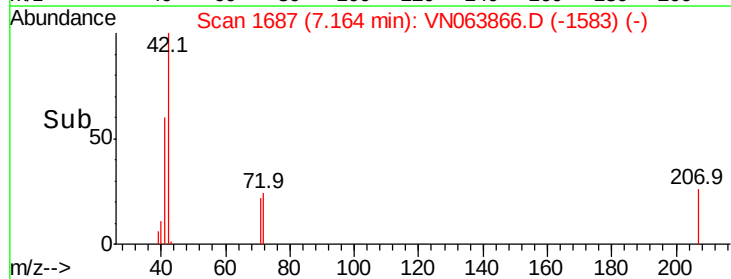
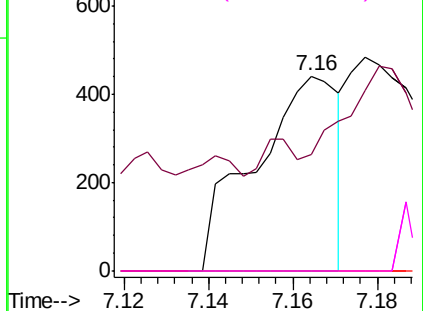


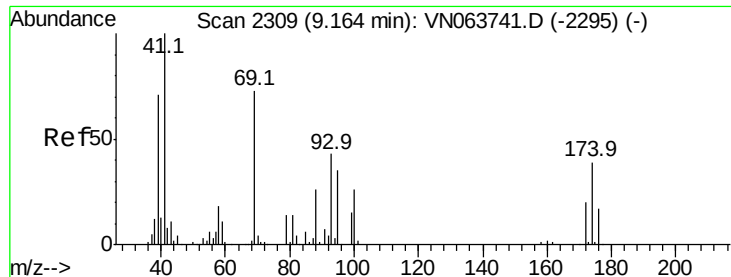
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#49

1,4-Dioxane

Concen: 0.601 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063866.D

Acq: 5 Oct 2020 13:21

Instrument :

MSVOA_N

ClientSampled :

FIELD-BLANK

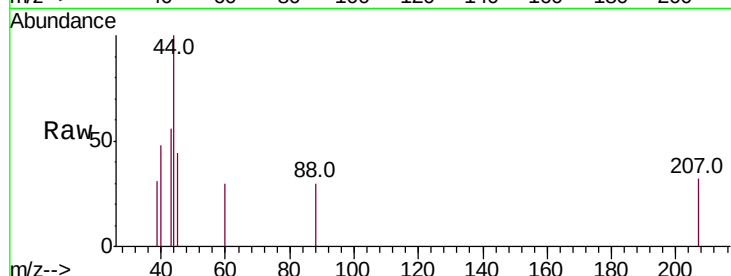
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 2226.7 33.1 49.7#

58 0.0 58.9 88.3#

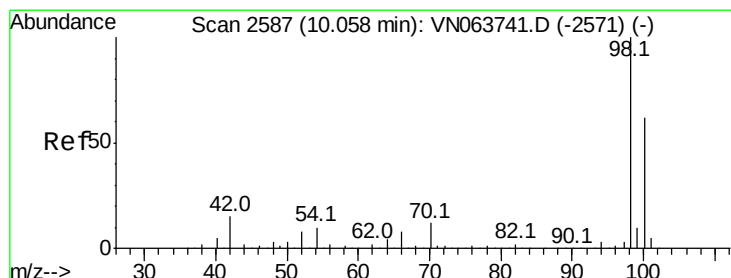
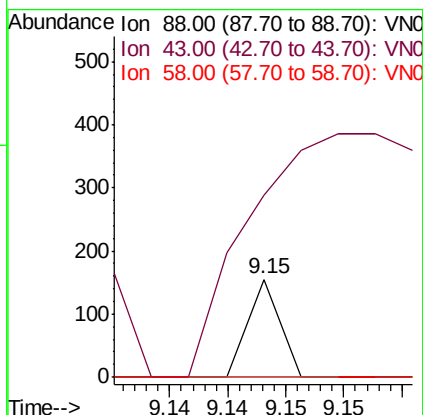
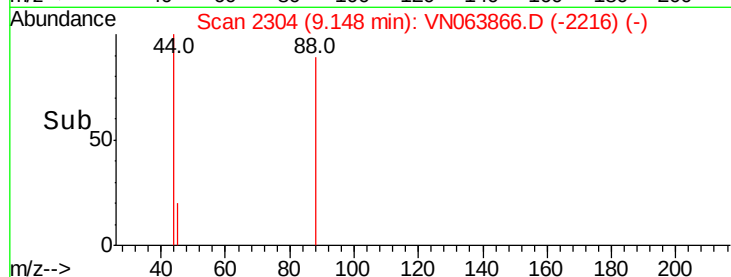


Abundance Ion 88.00 (87.70 to 88.70): VN063866.D (-2216) (-)

Ion 43.00 (42.70 to 43.70): VN063866.D (-2216) (-)

Ion 58.00 (57.70 to 58.70): VN063866.D (-2216) (-)

Time-->



#50

Toluene-d8

Concen: 48.288 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063866.D

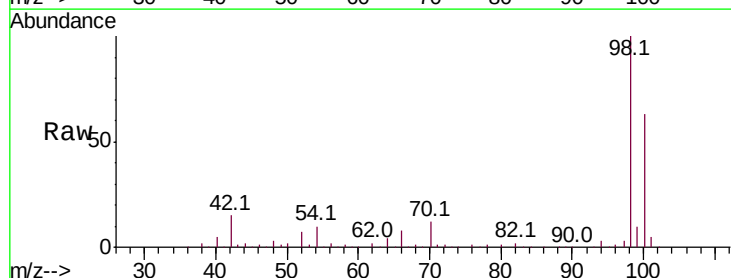
Acq: 5 Oct 2020 13:21

Tgt Ion: 98 Resp: 543568

Ion Ratio Lower Upper

98 100

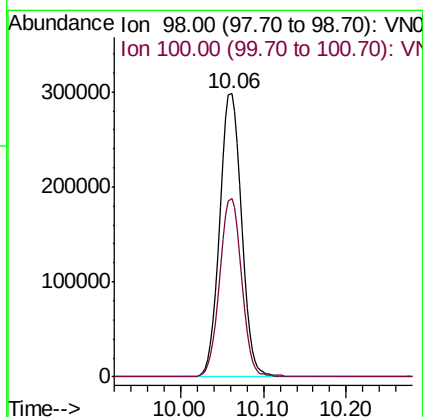
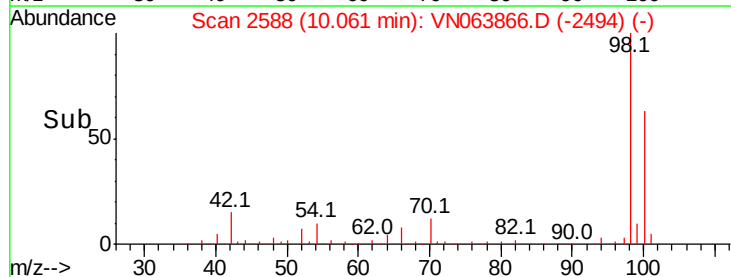
100 63.2 49.8 74.6

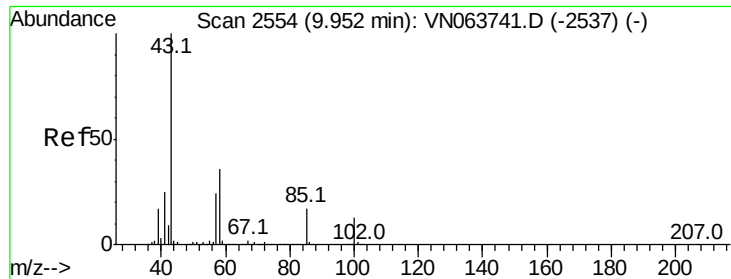


Abundance Ion 98.00 (97.70 to 98.70): VN063866.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN063866.D (-2494) (-)

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.502 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN063866.D

Acq: 5 Oct 2020 13:21

Instrument :

MSVOA_N

ClientSampled :

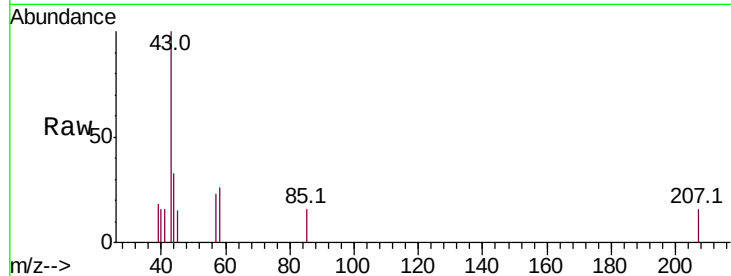
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Tot Ion: 43 Resp: 2093

Ion Ratio Lower Upper

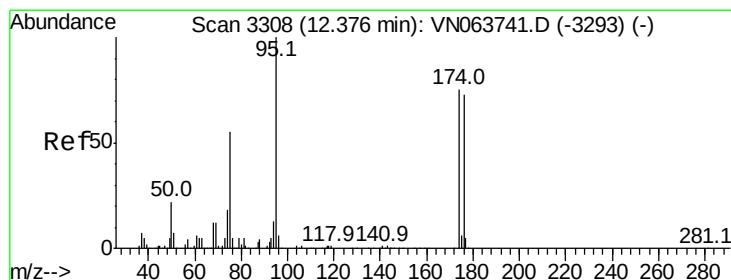
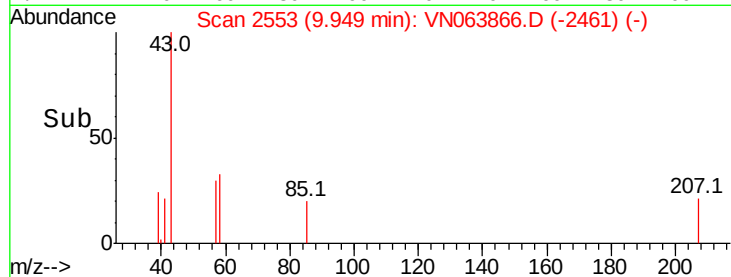
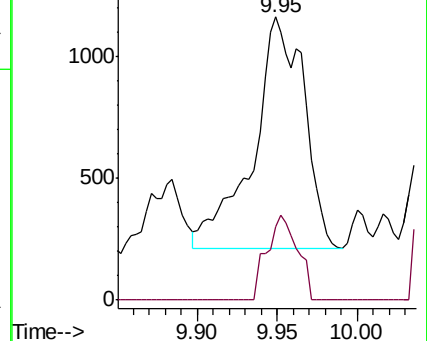
43 100

58 22.0 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 49.051 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063866.D

Acq: 5 Oct 2020 13:21

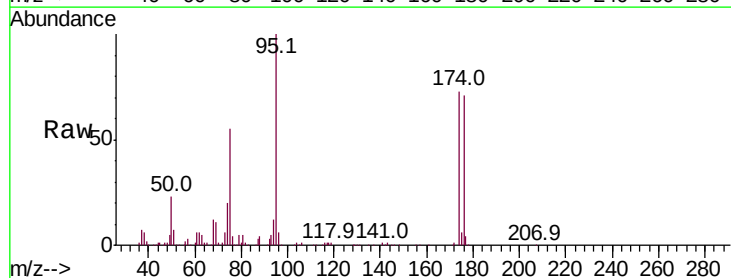
Tgt Ion: 95 Resp: 207565

Ion Ratio Lower Upper

95 100

174 75.3 0.0 150.6

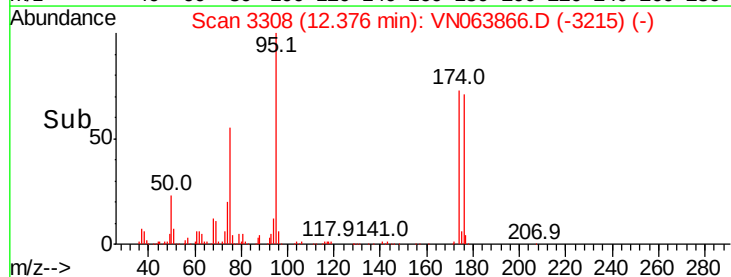
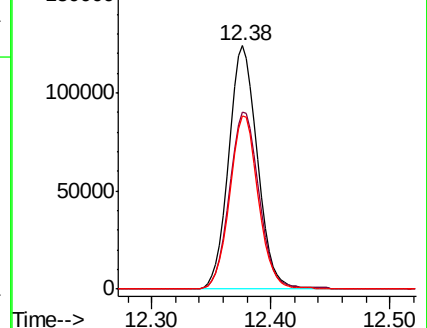
176 71.1 0.0 145.4

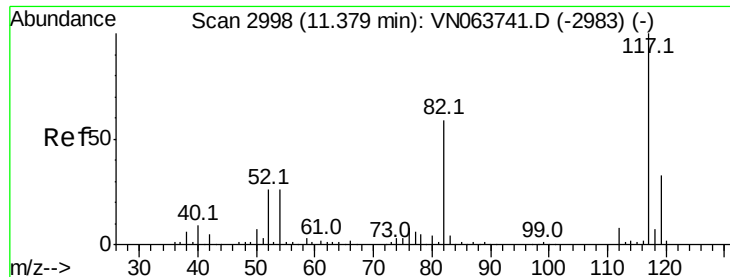


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

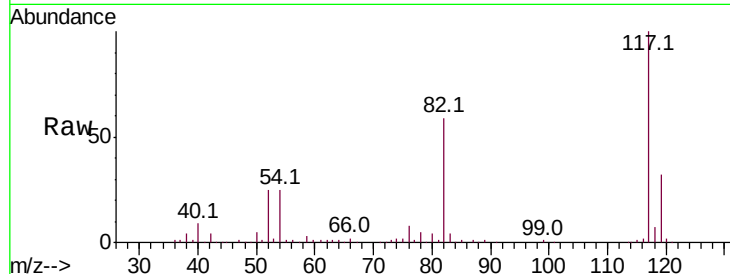




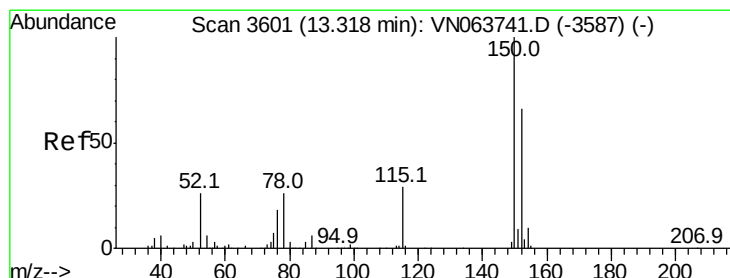
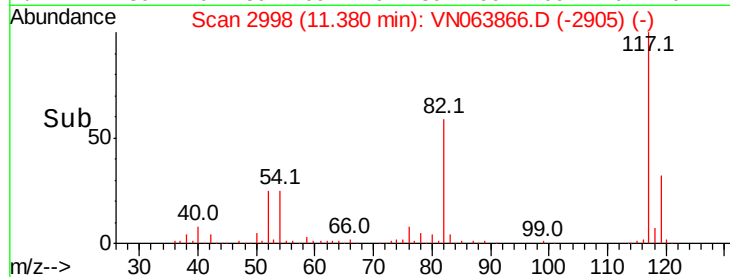
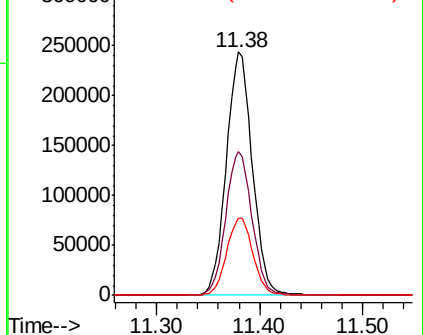
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063866.D
Acq: 5 Oct 2020 13:21

Instrument :
MSVOA_N
ClientSampled :
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Tot Ion:117 Resp: 429741
Ion Ratio Lower Upper
117 100
82 59.2 47.4 71.2
119 31.6 26.4 39.6

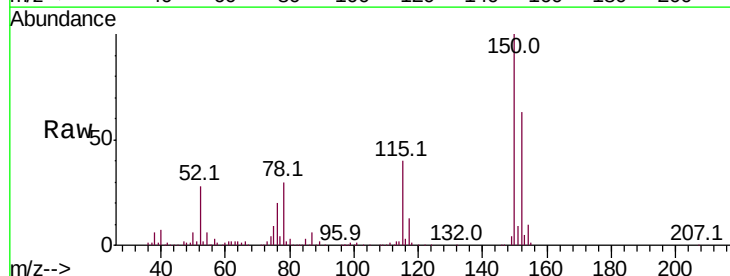


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

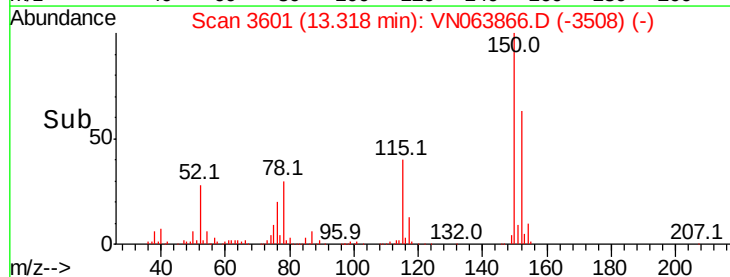
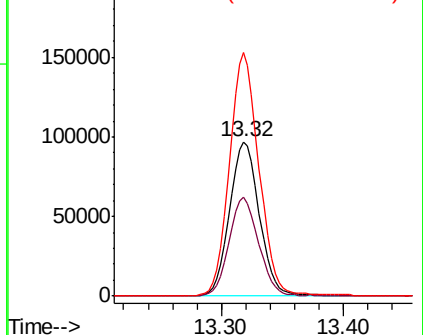


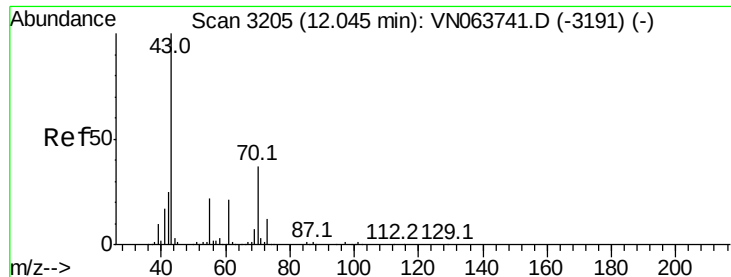
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063866.D
Acq: 5 Oct 2020 13:21

Tgt Ion:152 Resp: 165531
Ion Ratio Lower Upper
152 100
115 63.1 31.3 93.8
150 155.3 0.0 341.8



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: 2.315 ug/l

RT: 12.05 min Scan# 3207

Delta R.T. 0.01 min

Lab File: VN063866.D

Acq: 5 Oct 2020 13:21

Instrument :

MSVOA_N

ClientSampled :

FIELD-BLANK

Tot Ion: 43 Resp: 584

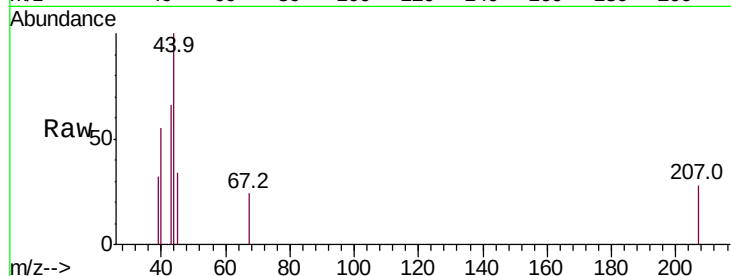
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 0.0 17.9 26.9#

61 0.0 17.0 25.4#

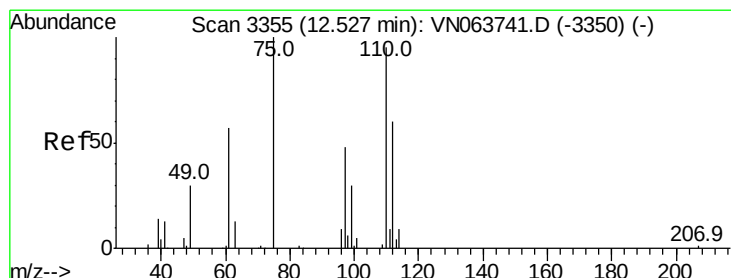
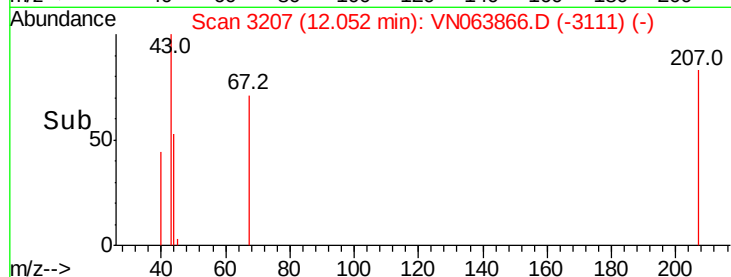
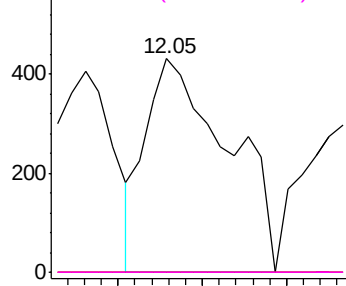


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 31.934 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063866.D

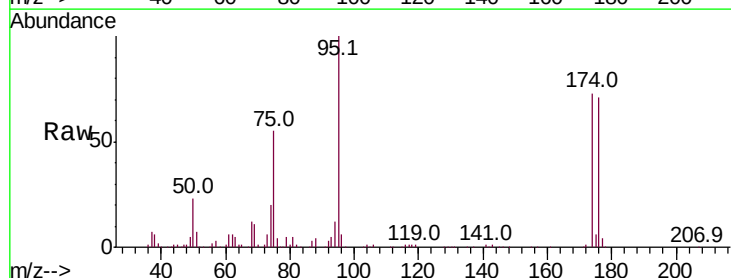
Acq: 5 Oct 2020 13:21

Tgt Ion: 75 Resp: 116526

Ion Ratio Lower Upper

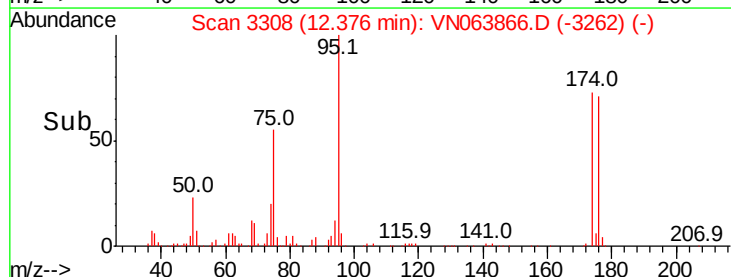
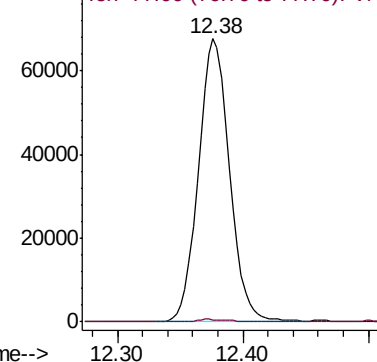
75 100

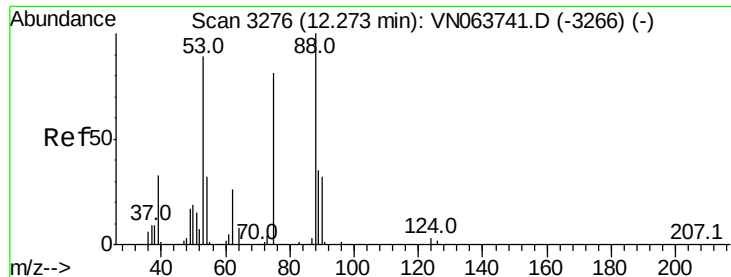
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

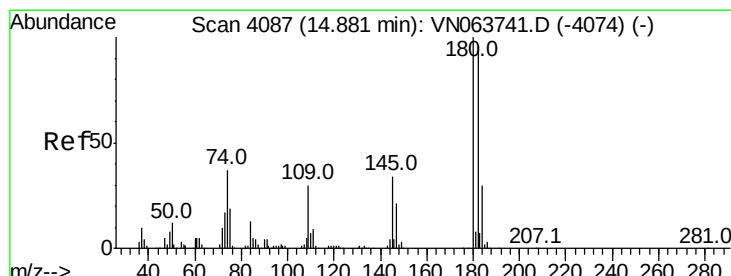
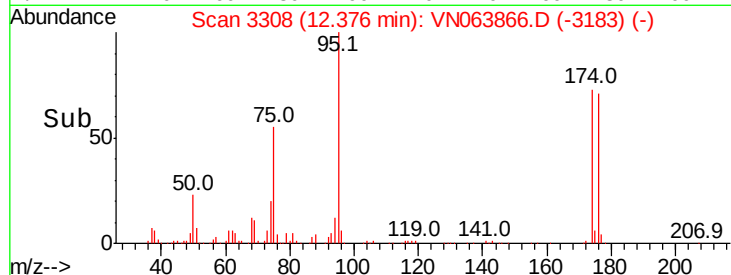
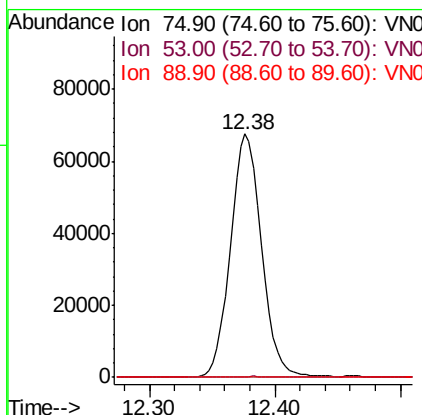
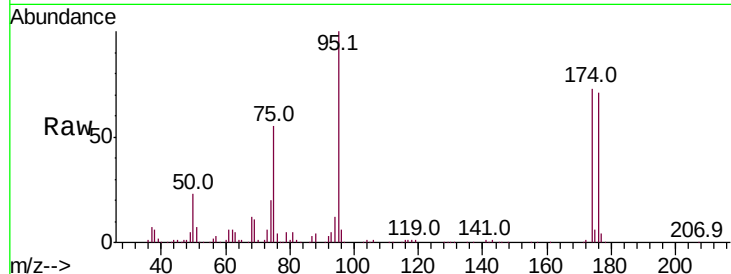




#81
trans-1,4-Dichloro-2-butene
Concen: 91.975 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN063866.D
Acq: 5 Oct 2020 13:21

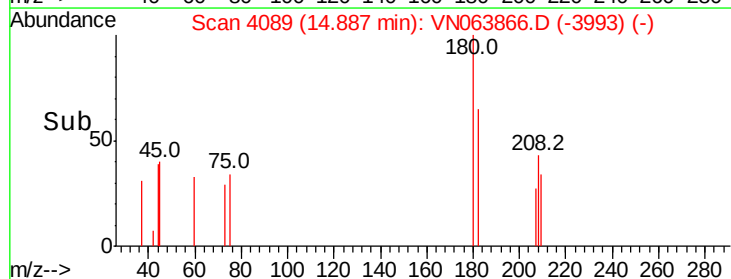
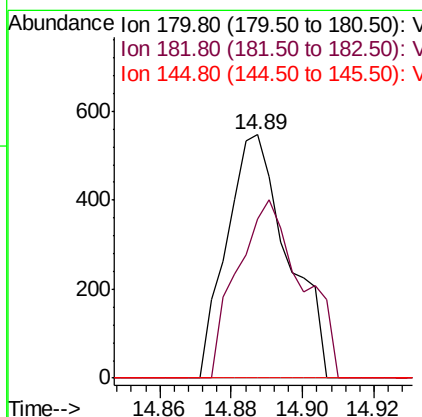
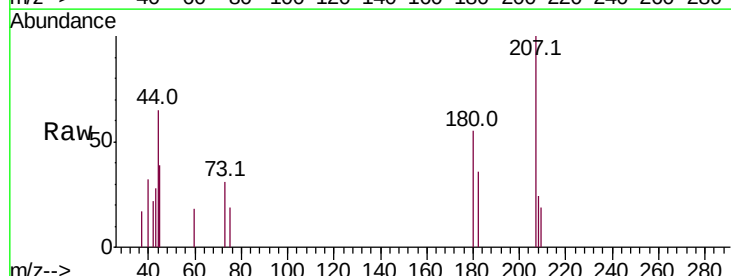
Instrument :
MSVOA_N
ClientSampled :
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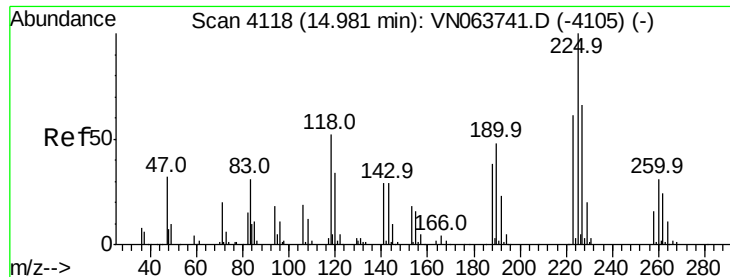
Tot Ion: 75 Resp: 116526
Ion Ratio Lower Upper
75 100
53 0.2 88.2 132.2#
89 0.0 36.0 54.0#



#93
1,2,4-Trichlorobenzene
Concen: 1.952 ug/l
RT: 14.89 min Scan# 4089
Delta R.T. 0.01 min
Lab File: VN063866.D
Acq: 5 Oct 2020 13:21

Tgt Ion:180 Resp: 645
Ion Ratio Lower Upper
180 100
182 78.0 48.2 144.6
145 0.0 17.1 51.2#





#94

Hexachlorobutadiene

Concen: 0.472 ug/l

RT: 14.98 min Scan# 4118

Delta R.T. 0.00 min

Lab File: VN063866.D

Acq: 5 Oct 2020 13:21

Instrument :

MSVOA_N

ClientSampled :

FIELD-BLANK

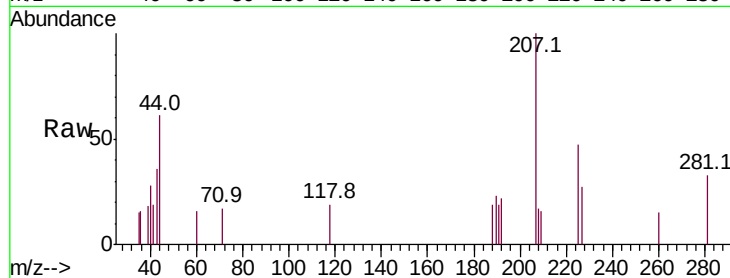
Tot Ion:225 Resp: 584

Ion Ratio Lower Upper

225 100

223 24.0 30.3 91.0#

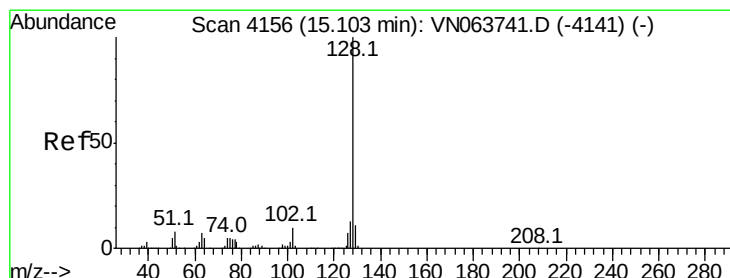
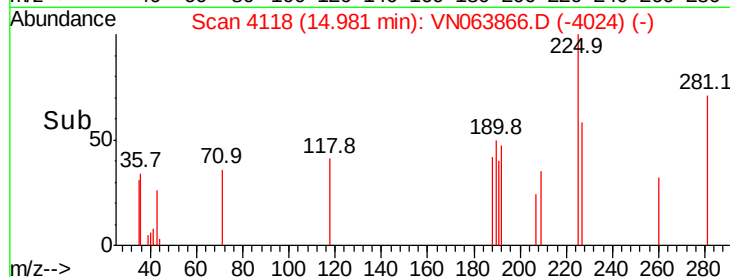
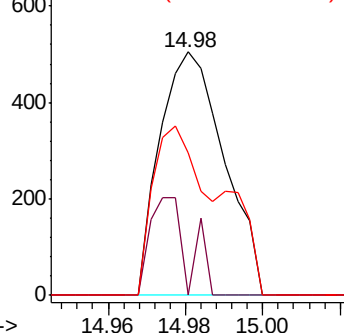
227 72.6 31.9 95.5



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



#95

Naphthalene

Concen: 2.210 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN063866.D

Acq: 5 Oct 2020 13:21

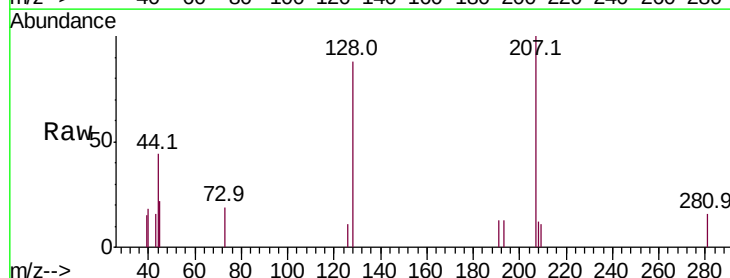
Tgt Ion:128 Resp: 2654

Ion Ratio Lower Upper

128 100

127 4.2 10.5 15.7#

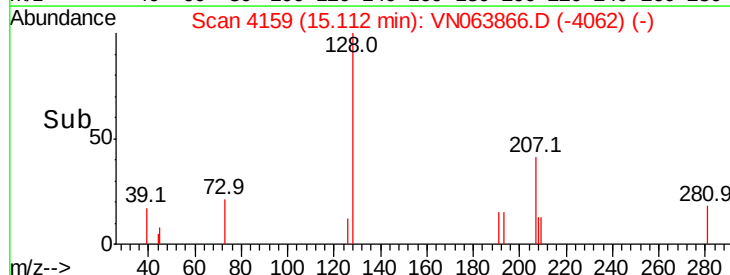
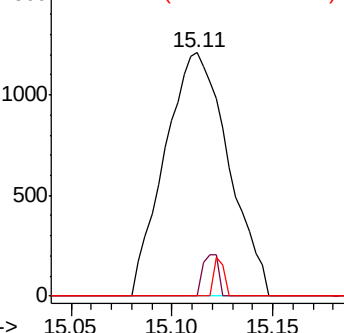
129 2.5 8.7 13.1#

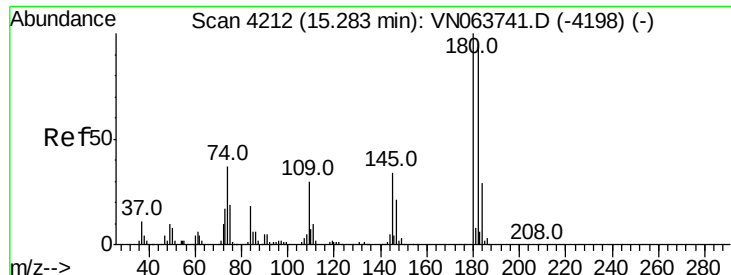


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

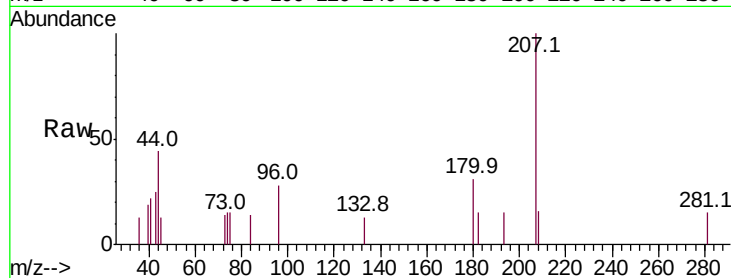




#96
 1,2,3-Trichlorobenzene
 Concen: 1.803 ug/l
 RT: 15.28 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN063866.D
 Acq: 5 Oct 2020 13:21

Instrument :
 MSVOA_N
 ClientSampleId :
 FIELD-BLANK

Tot Ion:180 Resp: 678
 Ion Ratio Lower Upper
 180 100
 182 18.3 47.9 143.6#
 145 0.0 17.2 51.5#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

