

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063398.D
 Acq On : 17 Sep 2020 5:27
 Operator : JC/MD
 Sample : L4015-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-6E-(D-0)

Quant Time: Sep 17 06:38:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	230980	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	443001	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	426947	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	181099	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	194765	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
35) Dibromofluoromethane	7.55	113	141758	46.22	ug/l	0.00
Spiked Amount			Recovery	=	92.44%	
50) Toluene-d8	10.06	98	567568	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
62) 4-Bromofluorobenzene	12.38	95	216377	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.37	74	384	0.215	ug/l #	1
16) Acetone	3.79	43	14550	11.514	ug/l	95
18) Methyl Acetate	4.29	43	4725	1.473	ug/l	99
20) Methylene Chloride	4.51	84	12987	4.056	ug/l	87
25) 2-Butanone	6.80	43	2876	1.480	ug/l #	76
29) Tetrahydrofuran	7.18	42	1780	1.341	ug/l #	61
31) Cyclohexane	7.62	56	6492	1.196	ug/l #	24
36) 1,1-Dichloropropene	7.62	75	22499	4.767	ug/l #	51
38) Carbon Tetrachloride	7.62	117	26949	5.594	ug/l #	18
43) Isopropyl Acetate	8.13	43	79060	9.545	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1468	0.400	ug/l #	43
48) Methyl methacrylate	9.15	41	5312	1.305	ug/l #	15
49) 1,4-Dioxane	9.17	88	63	1.079	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	9692	2.090	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	32692	5.541	ug/l #	65
56) Ethyl methacrylate	10.51	69	1220	0.243	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5181	0.893	ug/l #	42
59) 2-Hexanone	10.74	43	85427	25.430	ug/l #	53
74) N-amyl acetate	12.01	43	4185	0.609	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	122074	27.234	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	122074	74.665	ug/l #	7

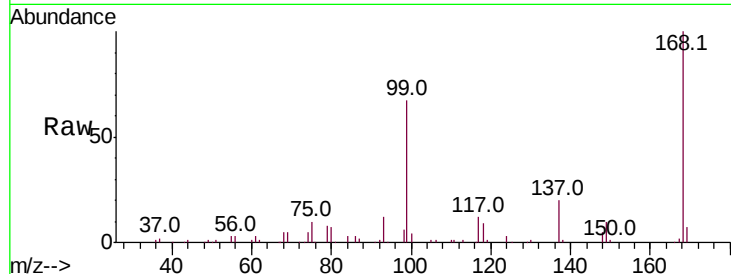
(#) = qualifier out of range (m) = manual integration (+) = signals summed



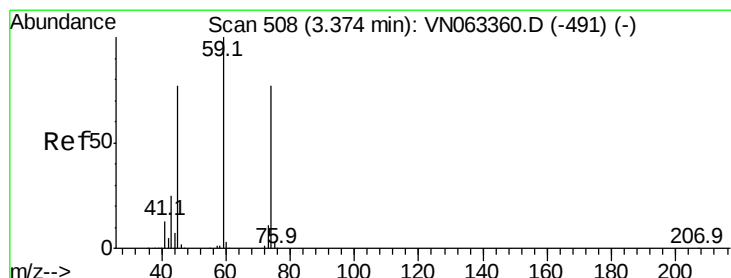
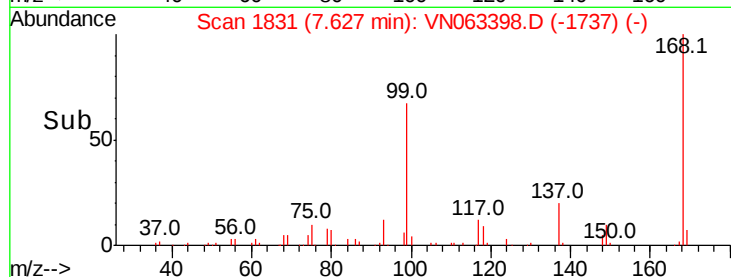
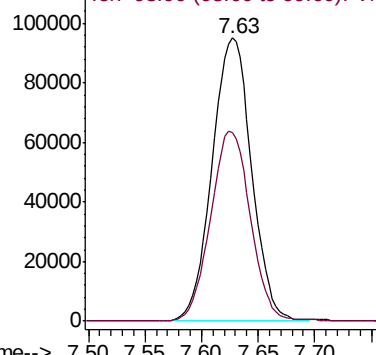
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VN063398.D
Acq: 17 Sep 2020 5:27

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(D-0)

Tot Ion:168 Resp: 230980
Ion Ratio Lower Upper
168 100
99 66.8 53.0 79.6

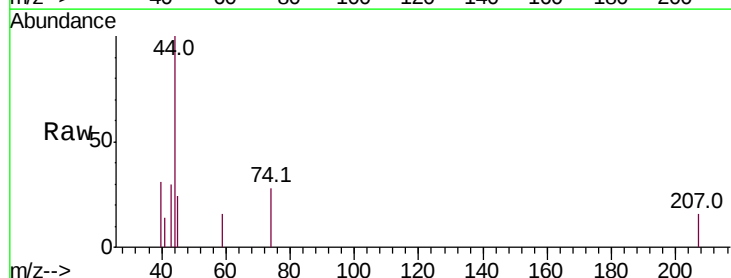


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VNO

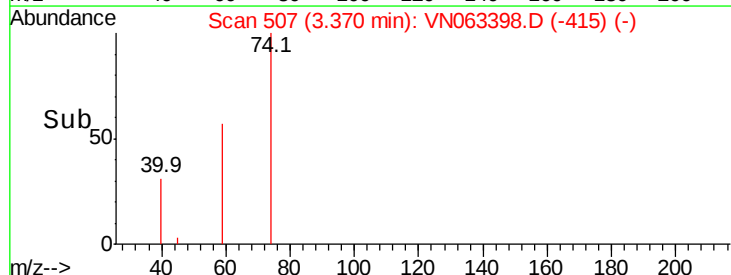
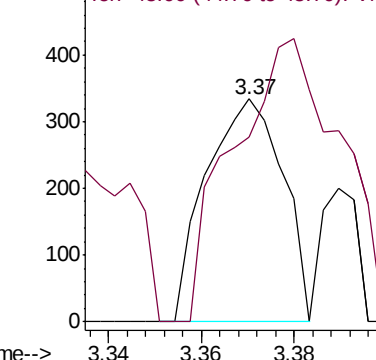


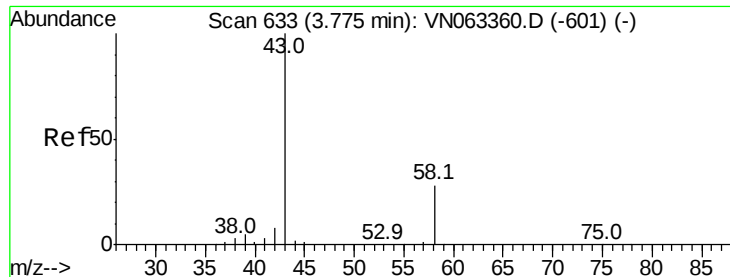
#8
Diethyl Ether
Concen: 0.215 ug/l
RT: 3.37 min Scan# 507
Delta R.T. -0.00 min
Lab File: VN063398.D
Acq: 17 Sep 2020 5:27

Tgt Ion: 74 Resp: 384
Ion Ratio Lower Upper
74 100
45 0.0 52.1 156.4#



Abundance Ion 74.00 (73.70 to 74.70): VNO
Ion 45.00 (44.70 to 45.70): VNO





#16

Acetone

Concen: 11.514 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

Instrument :

MSVOA_N

ClientSampleId :

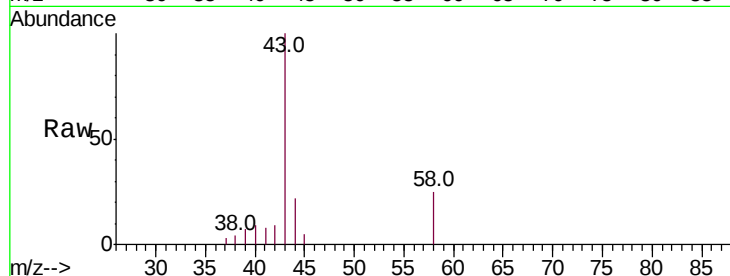
REACTOR-6E-(D-0)

Tot Ion: 43 Resp: 14550

Ion Ratio Lower Upper

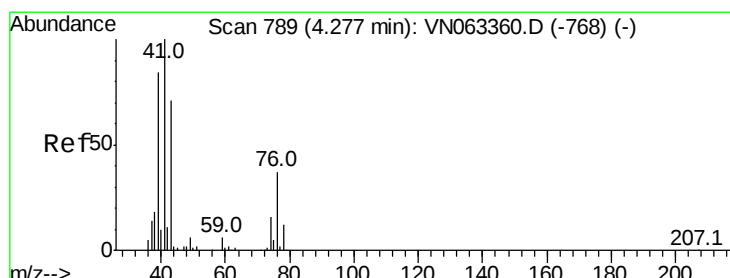
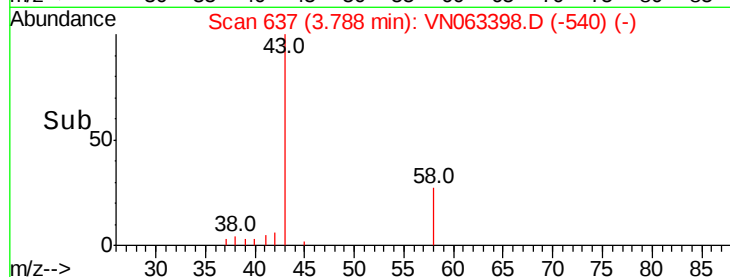
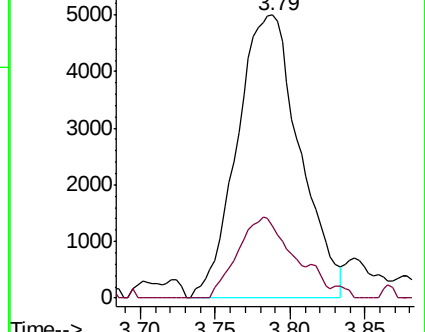
43 100

58 25.5 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-601) (-)



#18

Methyl Acetate

Concen: 1.473 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN063398.D

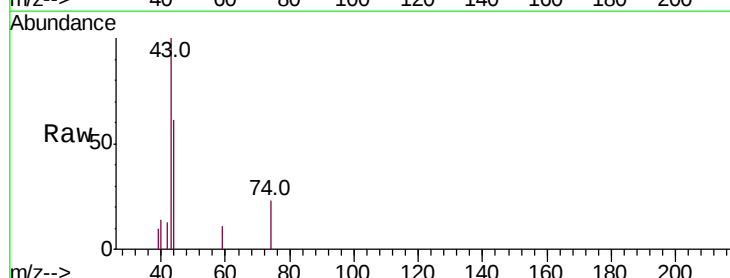
Acq: 17 Sep 2020 5:27

Tgt Ion: 43 Resp: 4725

Ion Ratio Lower Upper

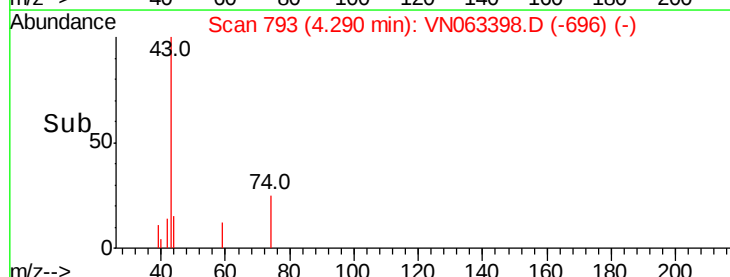
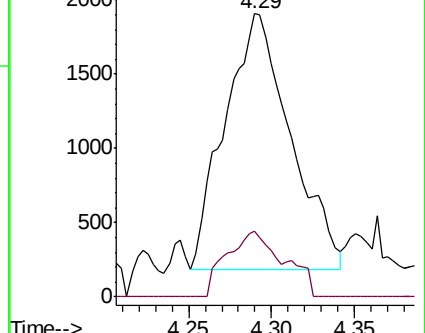
43 100

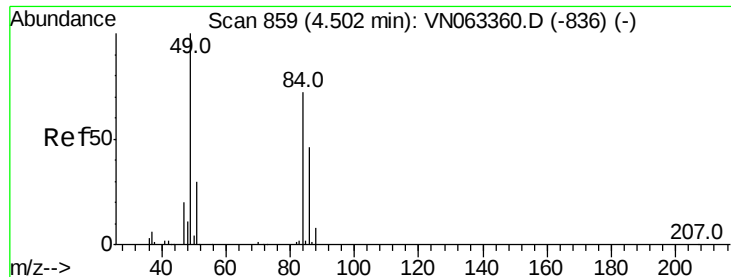
74 22.5 17.4 26.2



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN063360.D (-768) (-)

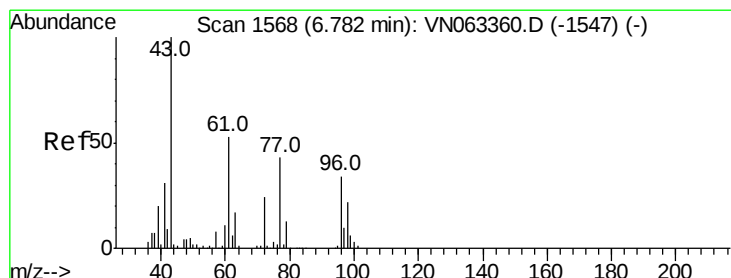
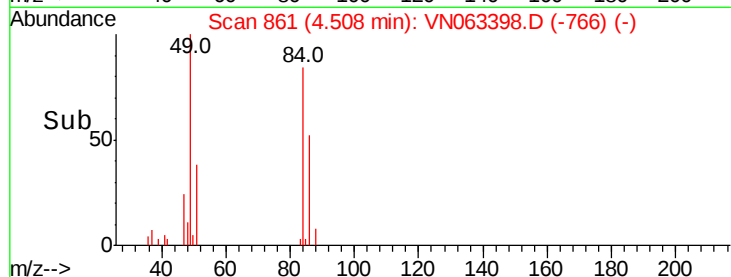
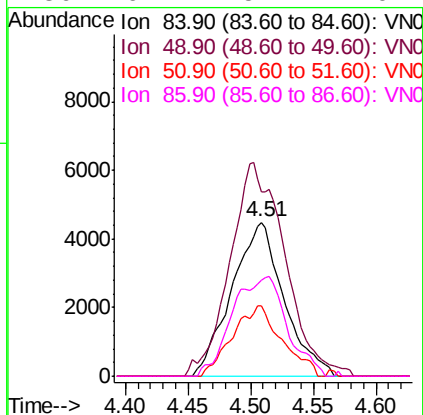
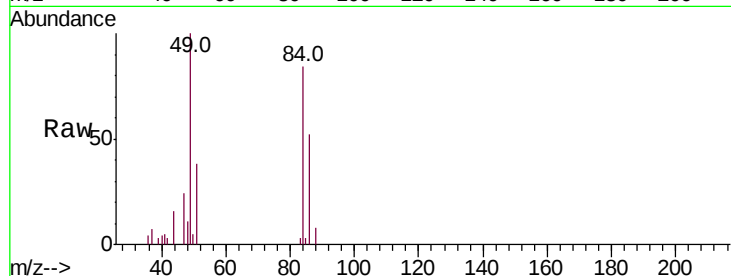




#20
Methvlene Chloride
Concen: 4.056 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063398.D
Acq: 17 Sep 2020 5:27

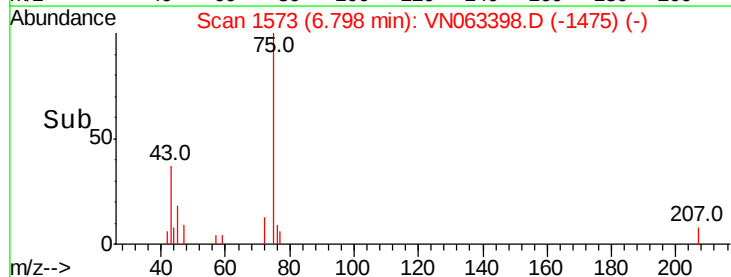
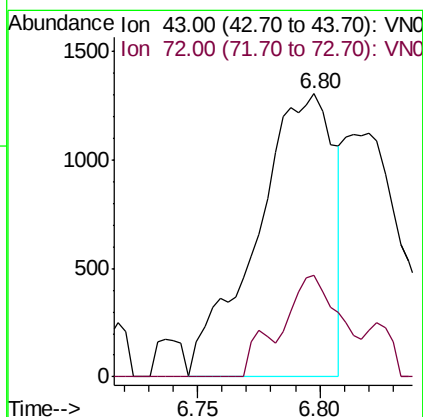
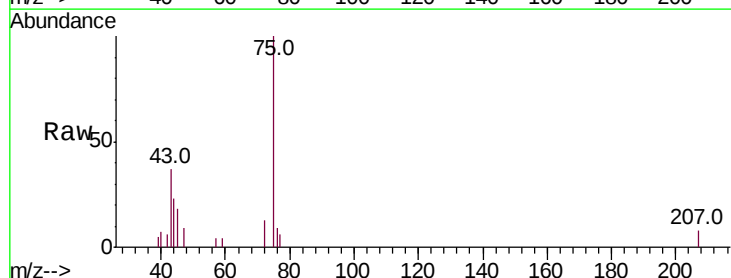
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(D-0)

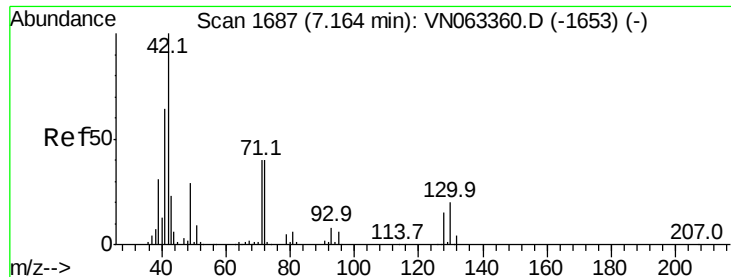
Tot Ion:	84	Resp:	12987
Ion	Ratio	Lower	Upper
84	100		
49	115.3	110.7	166.1
51	45.8	32.9	49.3
86	62.1	51.1	76.7



#25
2-Butanone
Concen: 1.480 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN063398.D
Acq: 17 Sep 2020 5:27

Tgt Ion:	43	Resp:	2876
Ion	Ratio	Lower	Upper
43	100		
72	36.0	19.2	28.8#





#29

Tetrahydrofuran

Concen: 1.341 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.02 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(D-0)

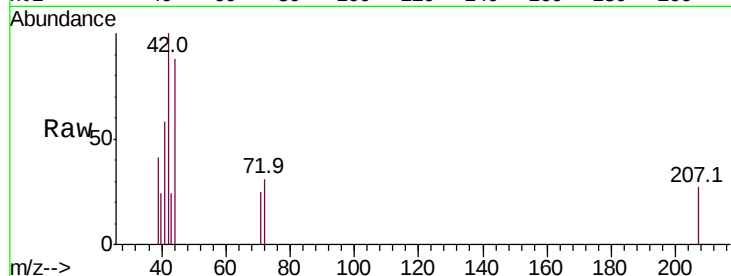
Tot Ion: 42 Resp: 1780

Ion Ratio Lower Upper

42 100

72 9.3 32.1 48.1#

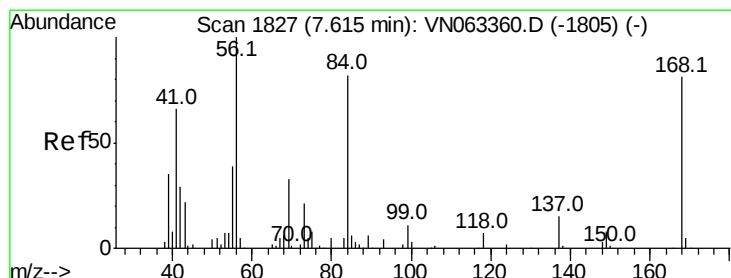
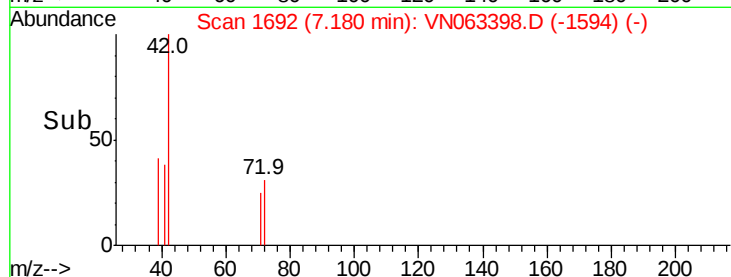
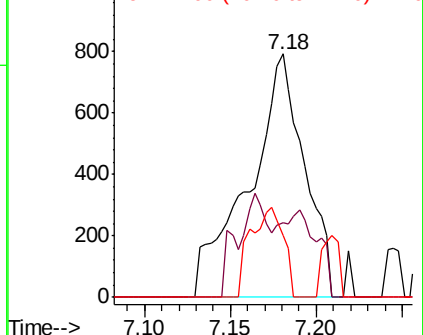
71 21.9 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.196 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

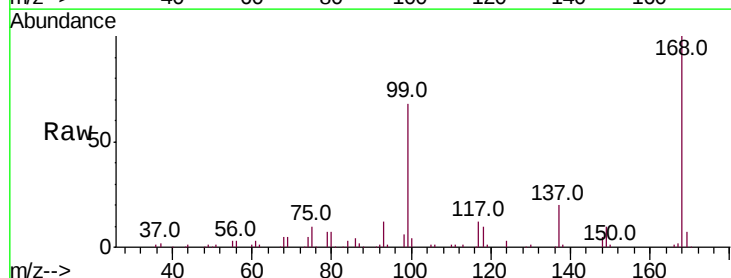
Tgt Ion: 56 Resp: 6492

Ion Ratio Lower Upper

56 100

69 144.7 26.1 39.1#

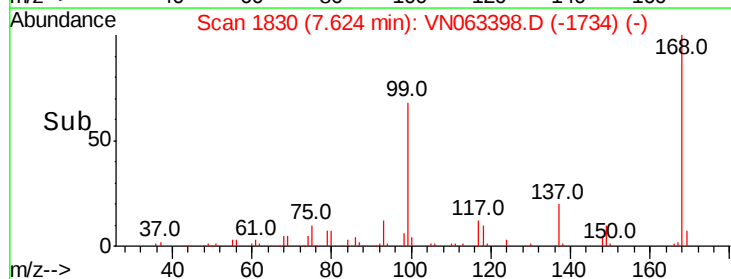
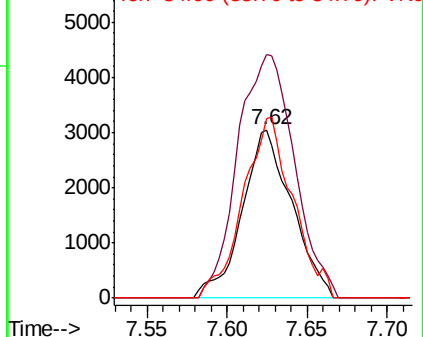
84 106.4 65.4 98.2#

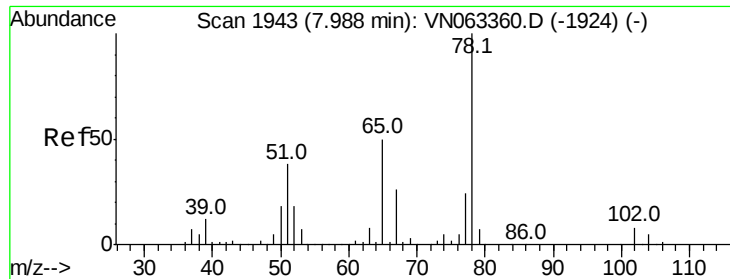


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

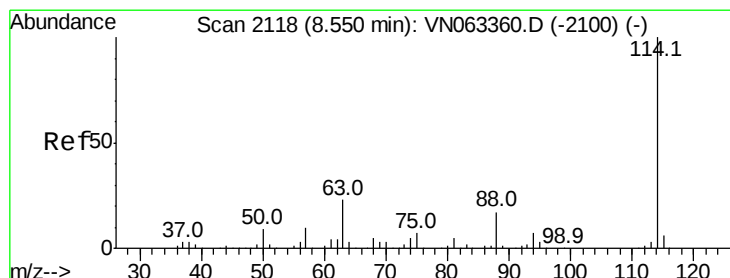
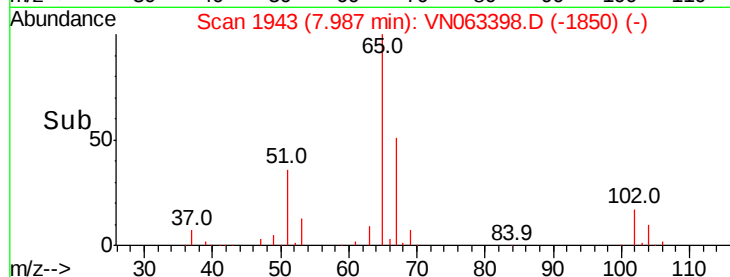
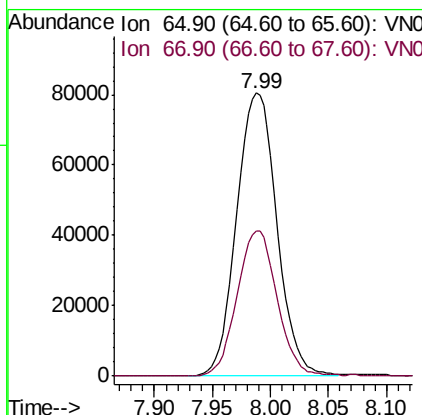
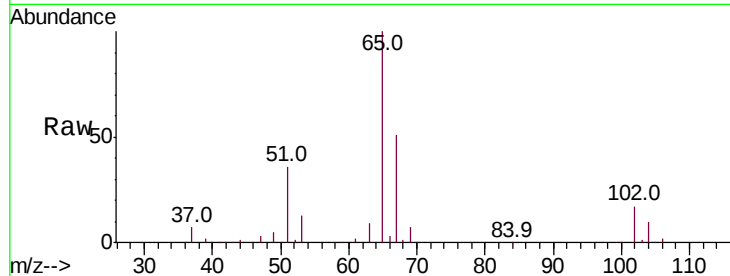




#33
 1,2-Dichloroethane-d4
 Concen: 49.535 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063398.D
 Acq: 17 Sep 2020 5:27

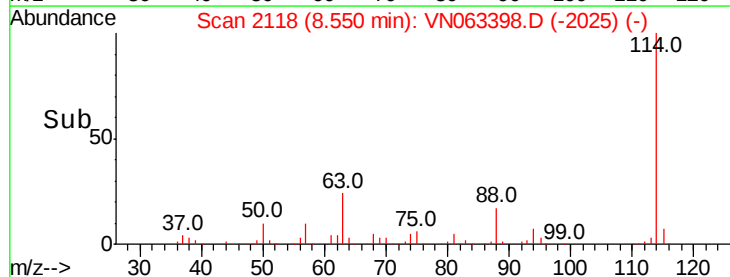
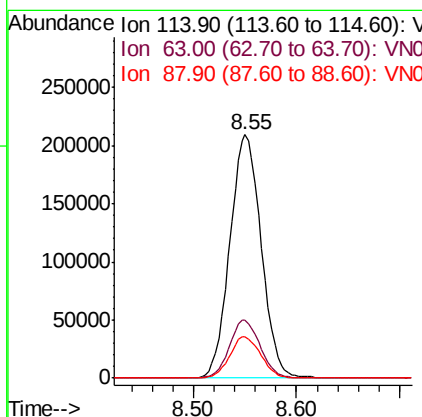
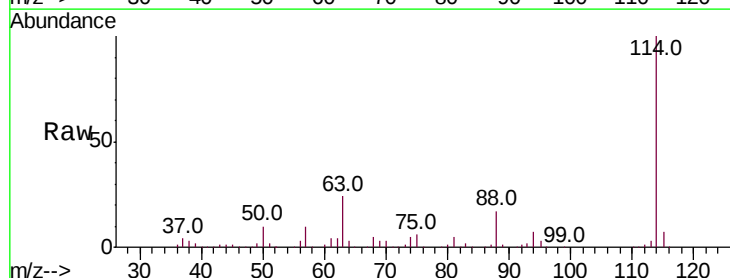
Instrument :
 MSVOA_N
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 REACTOR-6E-(D-0)

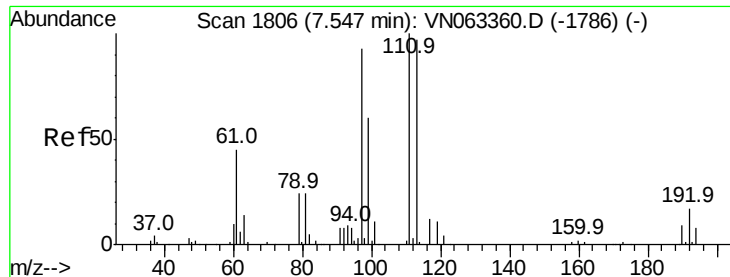
Tot Ion: 65 Resp: 194765
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063398.D
 Acq: 17 Sep 2020 5:27

Tgt Ion: 114 Resp: 443001
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 46.4
 88 17.0 0.0 33.2

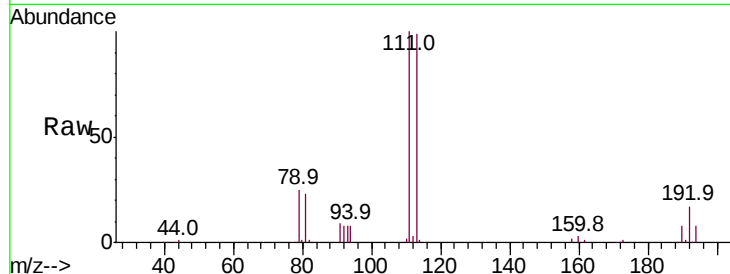




#35
 Dibromofluoromethane
 Concen: 46.223 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063398.D
 Acq: 17 Sep 2020 5:27

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-6E-(D-0)

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.9	124.3
192	17.4	13.9	20.9

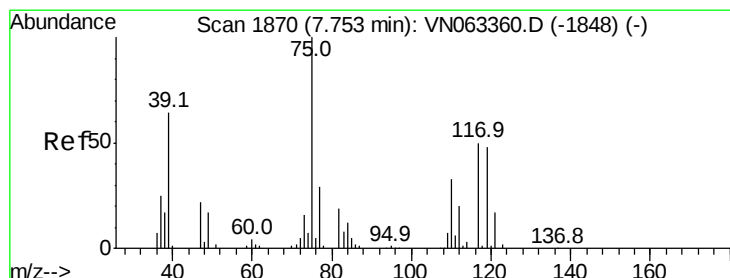
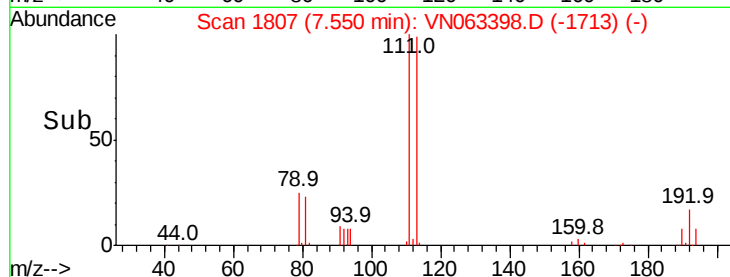
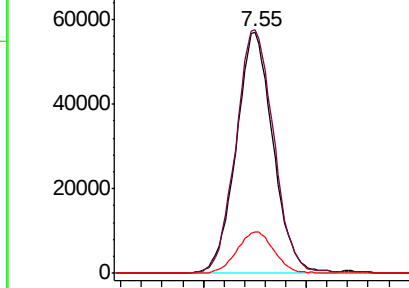


Abundance

Ion 112.80 (112.50 to 113.50): V

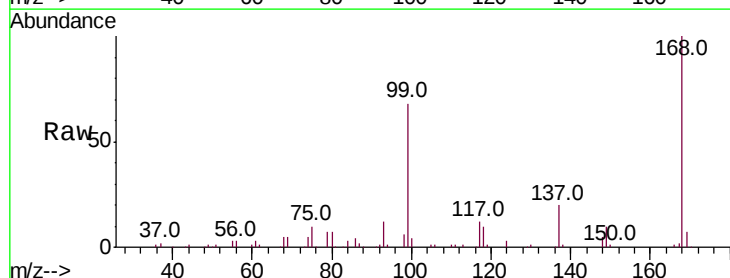
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.767 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063398.D
 Acq: 17 Sep 2020 5:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	16.5	49.5#
77	0.0	24.6	36.8#

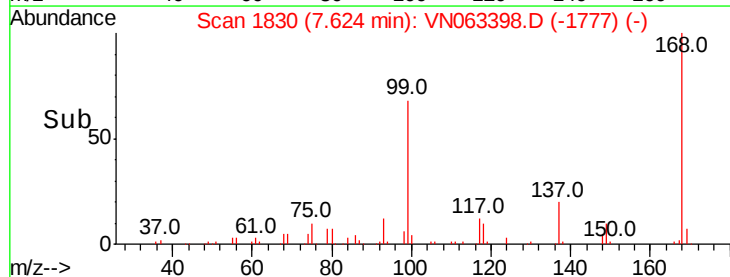
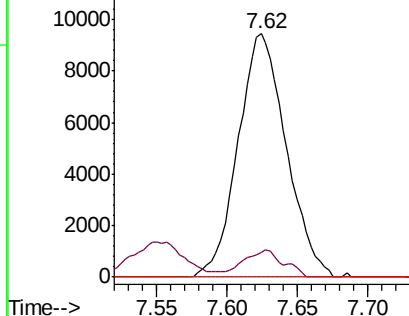


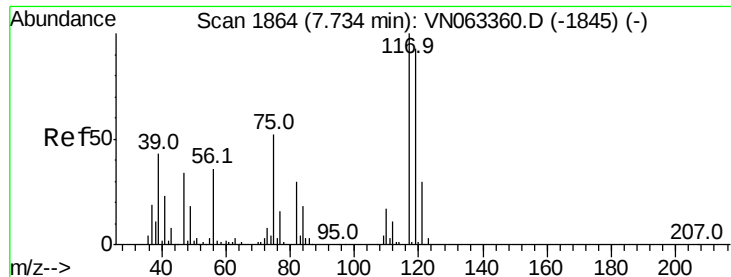
Abundance

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: 5.594 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(D-0)

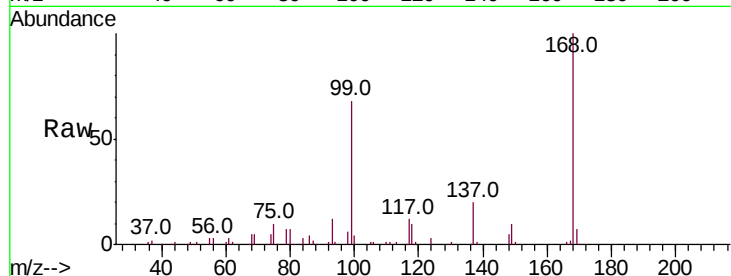
Tot Ion:117 Resp: 26949

Ion Ratio Lower Upper

117 100

119 5.5 74.5 111.7#

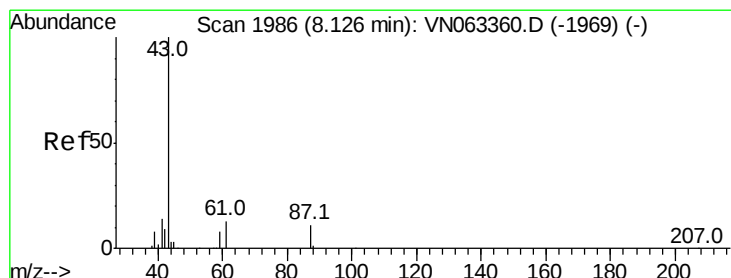
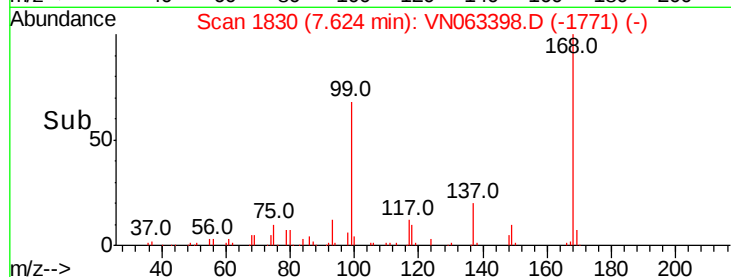
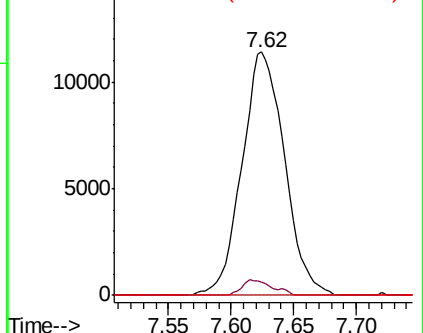
121 0.0 24.1 36.1#



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



#43

Isopropyl Acetate

Concen: 9.545 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

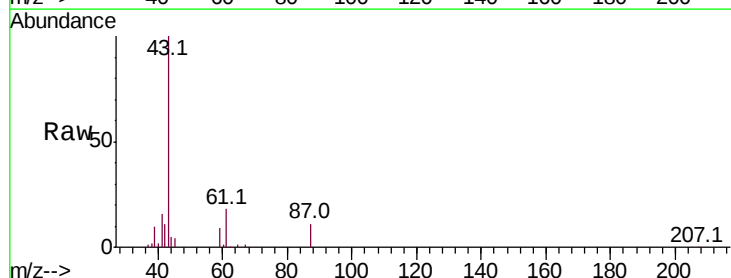
Tgt Ion: 43 Resp: 79060

Ion Ratio Lower Upper

43 100

61 18.4 14.2 21.2

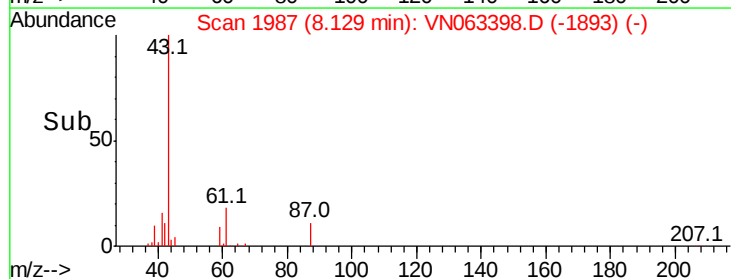
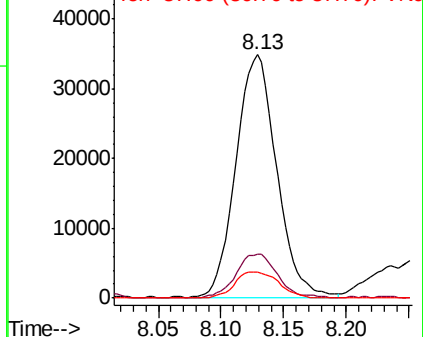
87 11.6 9.0 13.6

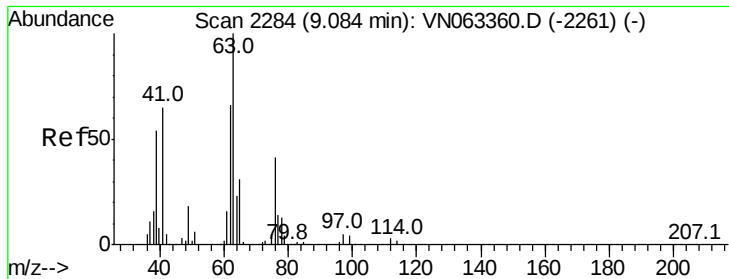


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.400 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

Instrument :

MSVOA_N

ClientSampleId :

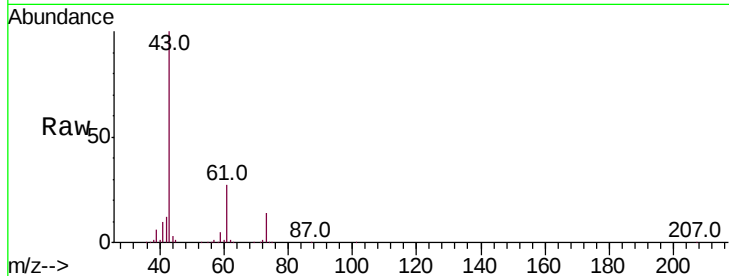
REACTOR-6E-(D-0)

Tot Ion: 63 Resp: 1468

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

800

600

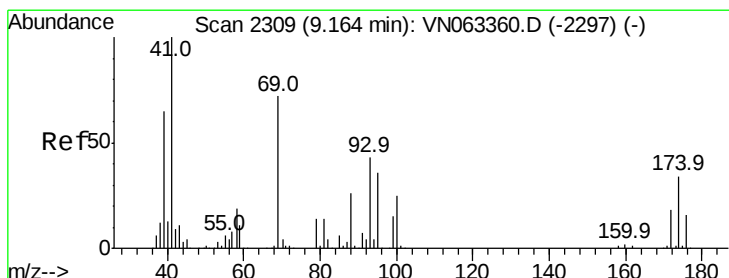
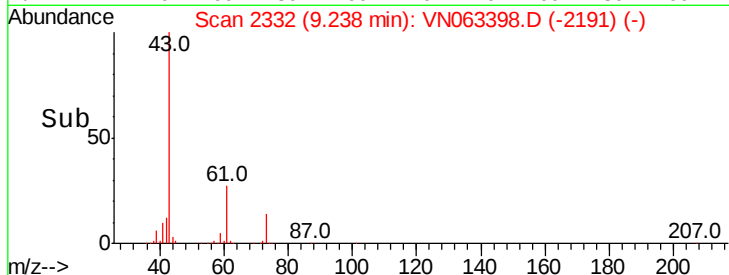
400

200

0

9.20 9.24 9.28

Time-->



#48

Methyl methacrylate

Concen: 1.305 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

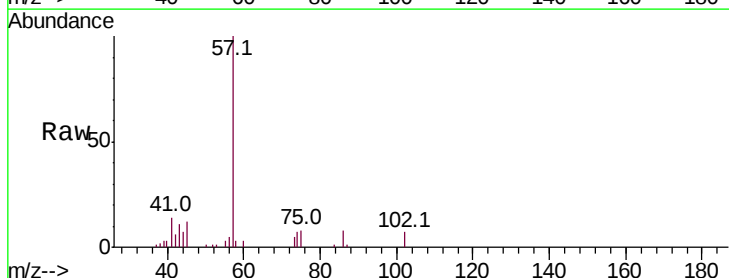
Tgt Ion: 41 Resp: 5312

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

39 0.0 52.9 79.3#



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

80000

60000

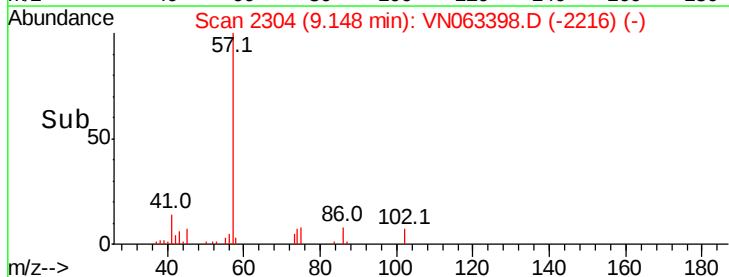
40000

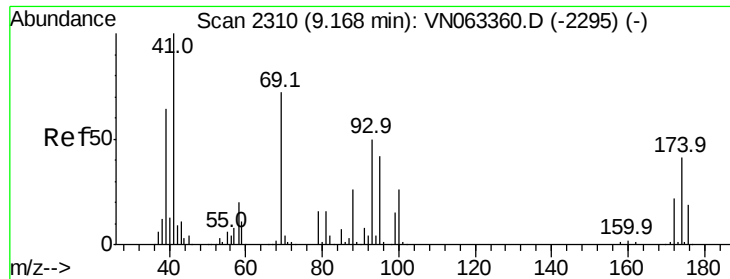
20000

0

9.10 9.15 9.20

Time-->





#49

1,4-Dioxane

Concen: 1.079 ug/l

RT: 9.17 min Scan# 2312

Delta R.T. 0.01 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(D-0)

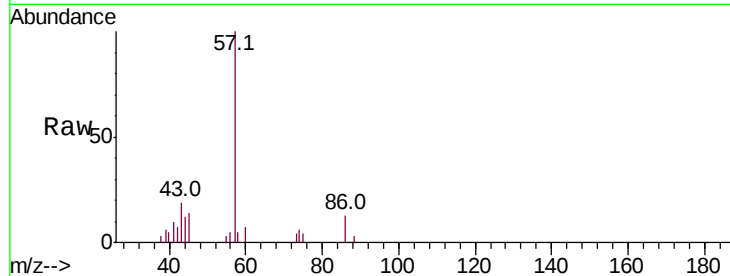
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 32.6 49.0#

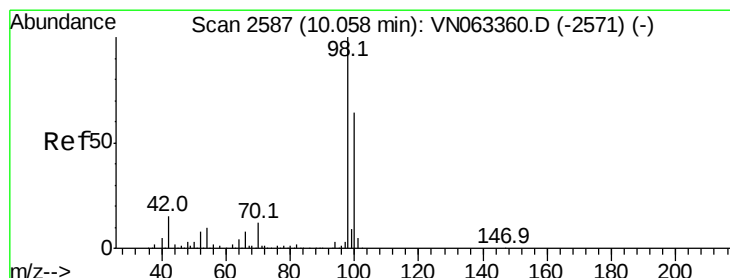
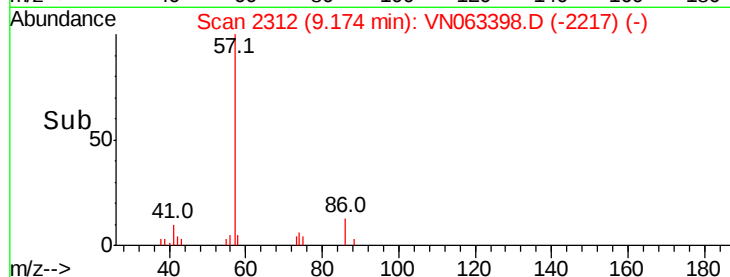
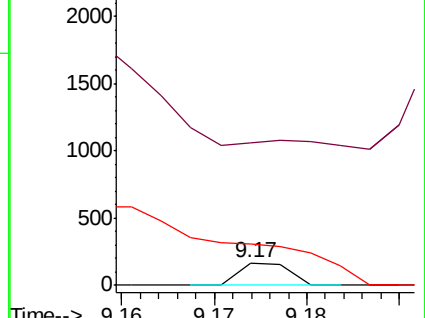
58 2200.0 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN063360.D (-2295) (-)

Ion 43.00 (42.70 to 43.70): VN063360.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2295) (-)



#50

Toluene-d8

Concen: 49.218 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063398.D

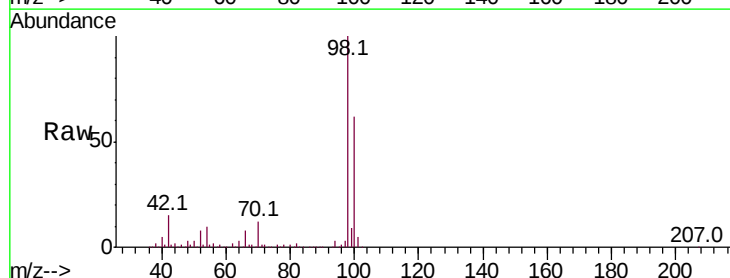
Acq: 17 Sep 2020 5:27

Tgt Ion: 98 Resp: 567568

Ion Ratio Lower Upper

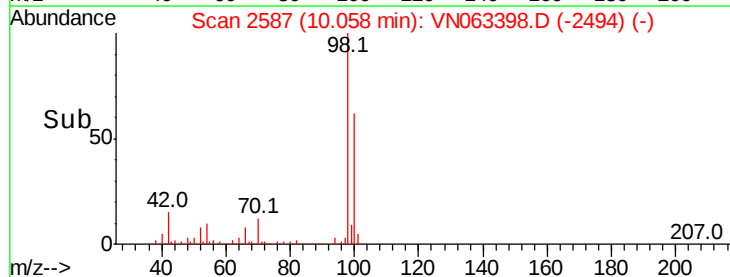
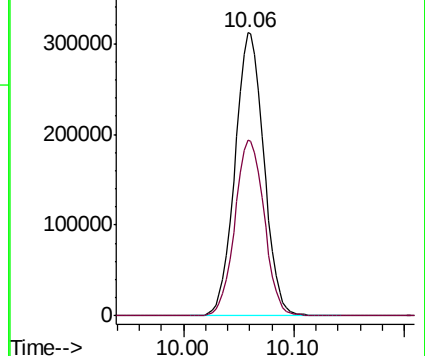
98 100

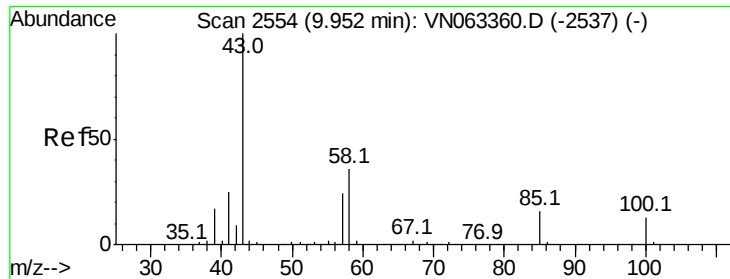
100 62.7 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063360.D (-2571) (-)





#51

4-Methyl-2-Pentanone

Concen: 2.090 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

Instrument :

MSVOA_N

ClientSampleId :

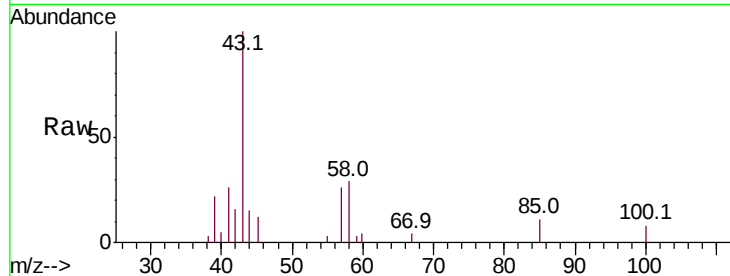
REACTOR-6E-(D-0)

Tot Ion: 43 Resp: 9692

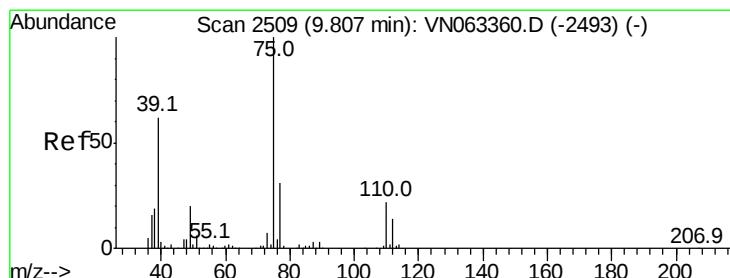
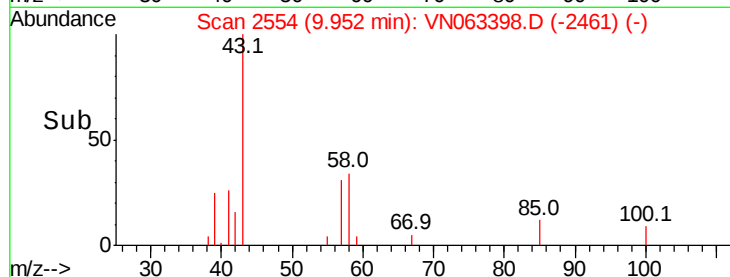
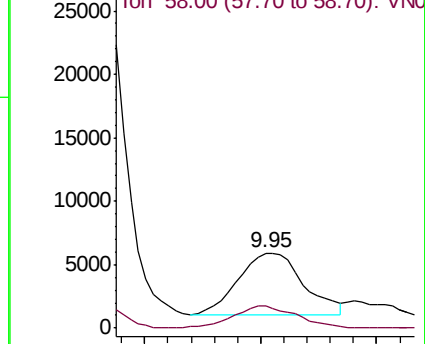
Ion Ratio Lower Upper

43 100

58 34.9 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.541 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

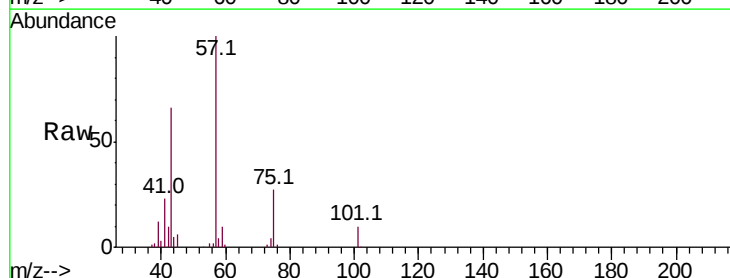
Tgt Ion: 75 Resp: 32692

Ion Ratio Lower Upper

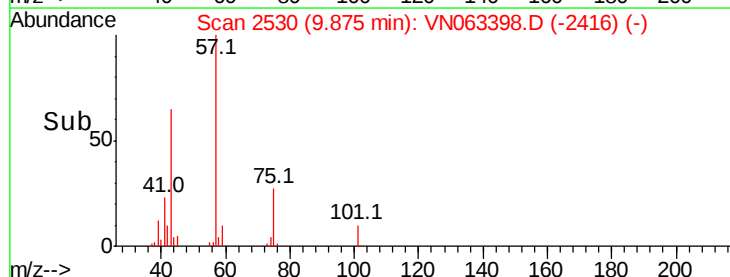
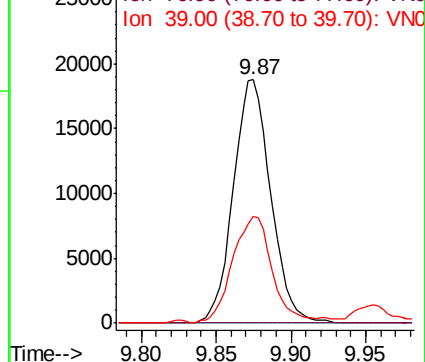
75 100

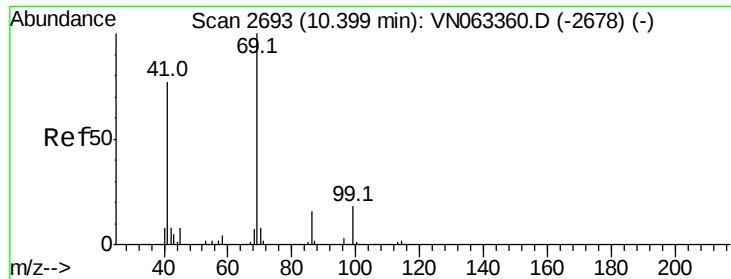
77 0.0 24.6 37.0#

39 43.7 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)





#56

Ethyl methacrylate

Concen: 0.243 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(D-0)

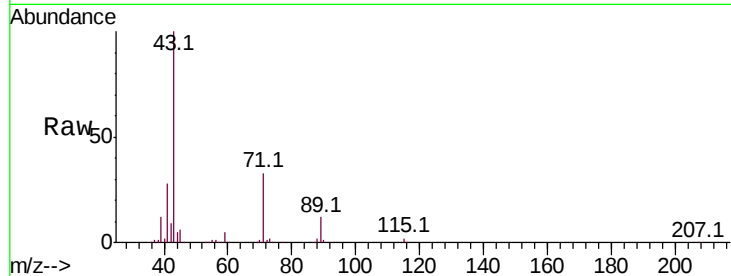
Tot Ion: 69 Resp: 1220

Ion Ratio Lower Upper

69 100

41 6964.7 61.0 91.6#

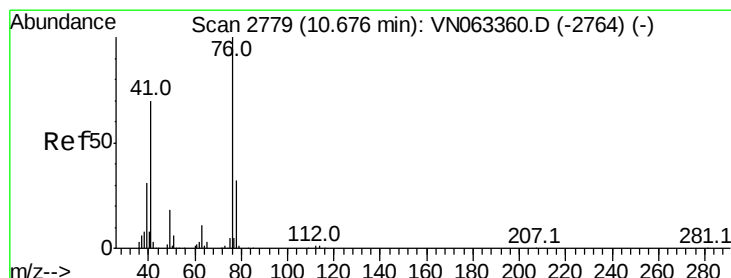
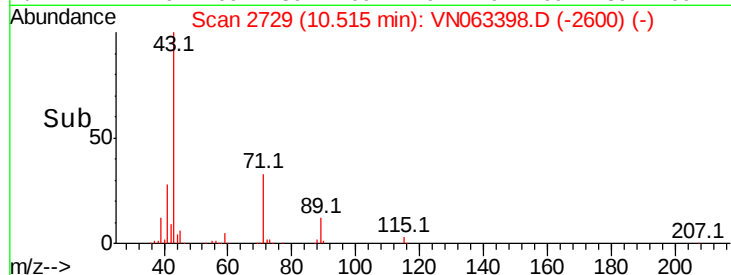
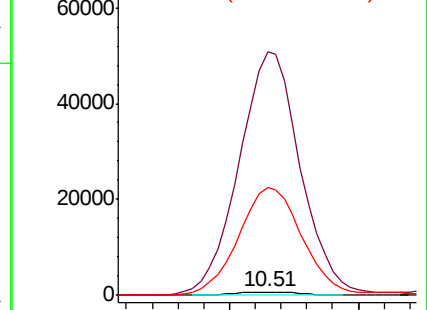
39 3164.6 39.2 58.8#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.893 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN063398.D

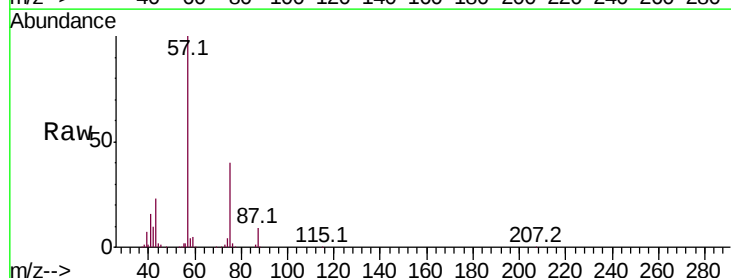
Acq: 17 Sep 2020 5:27

Tgt Ion: 76 Resp: 5181

Ion Ratio Lower Upper

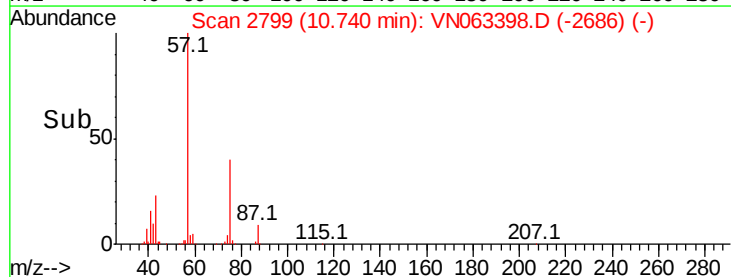
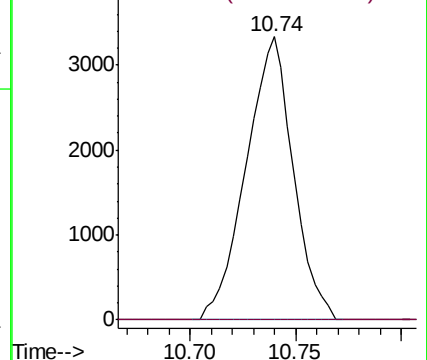
76 100

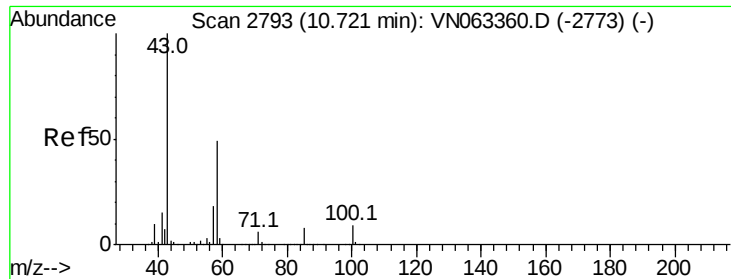
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 25.430 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

Instrument :

MSVOA_N

ClientSampleId :

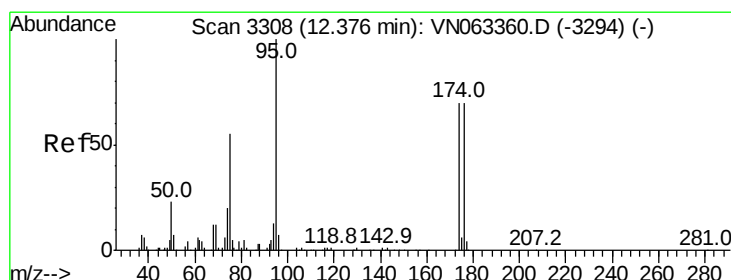
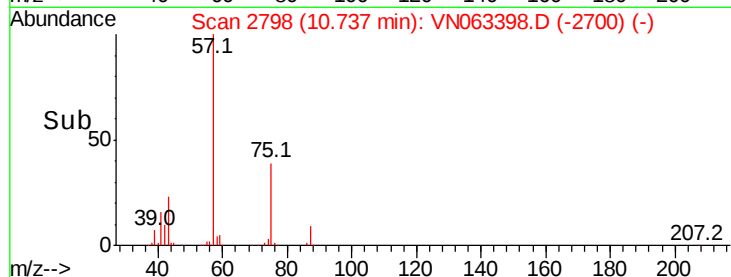
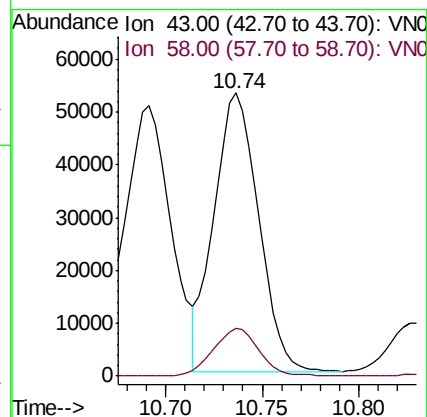
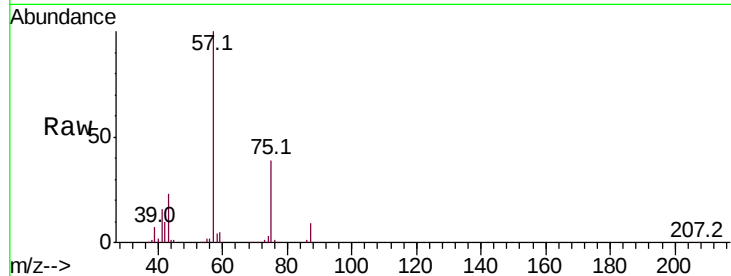
REACTOR-6E-(D-0)

Tot Ion: 43 Resp: 85427

Ion Ratio Lower Upper

43 100

58 17.3 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 51.185 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

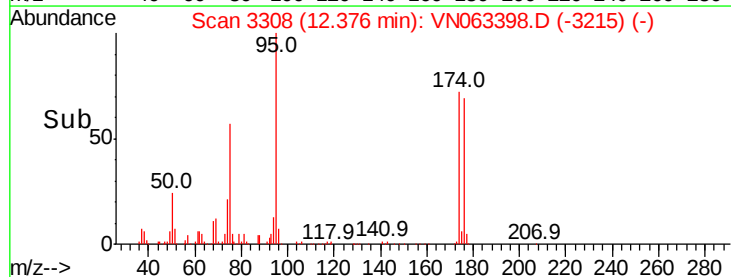
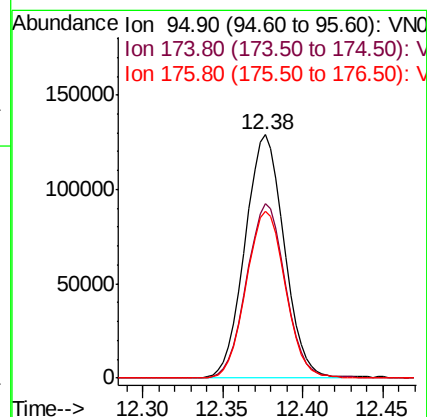
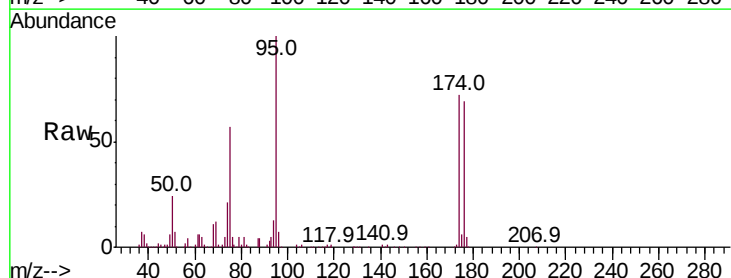
Tgt Ion: 95 Resp: 216377

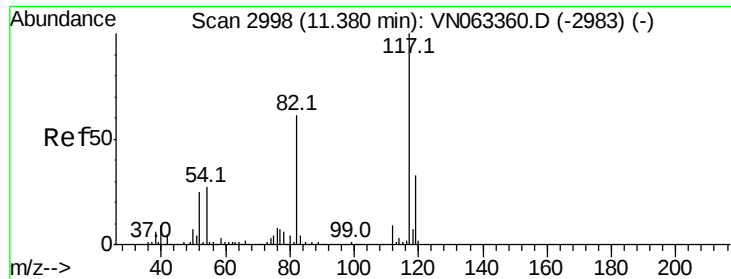
Ion Ratio Lower Upper

95 100

174 71.4 0.0 140.8

176 68.8 0.0 137.6

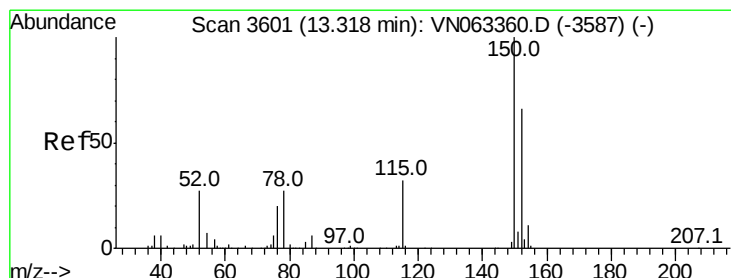
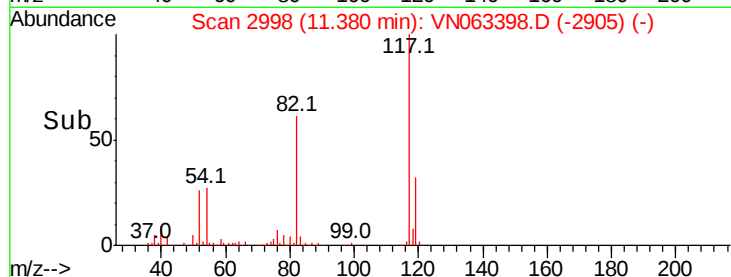
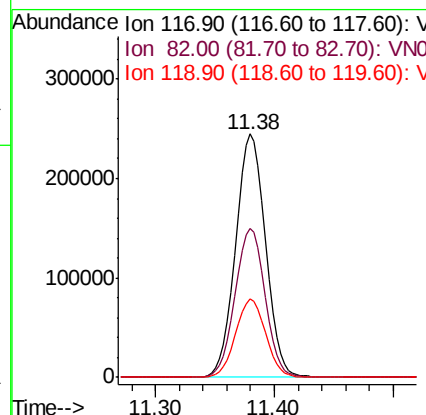
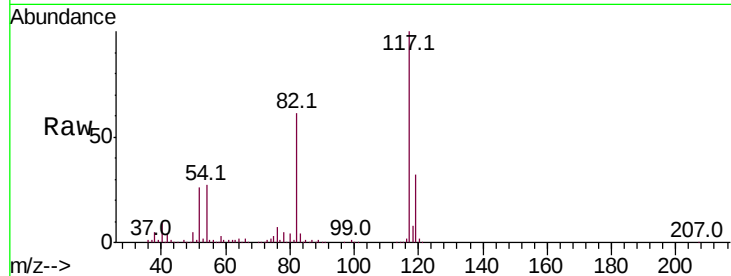




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063398.D
Acq: 17 Sep 2020 5:27

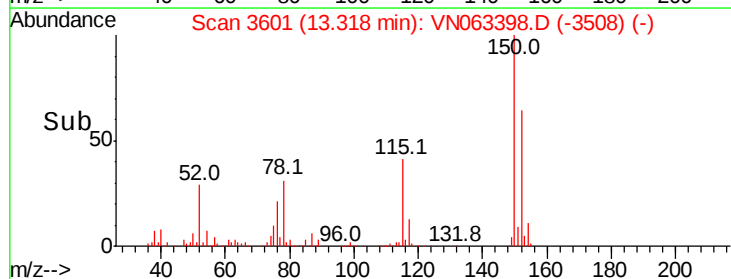
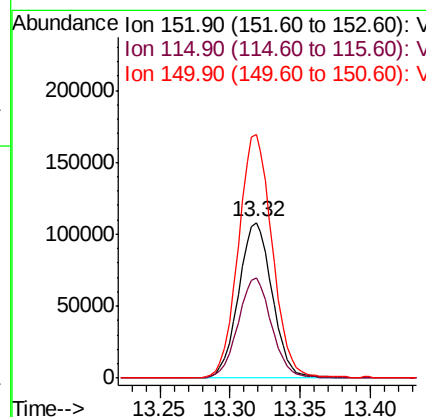
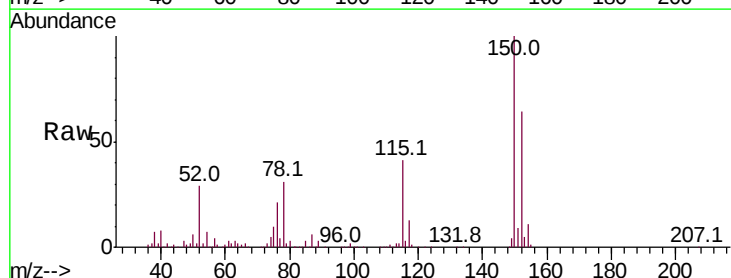
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(D-0)

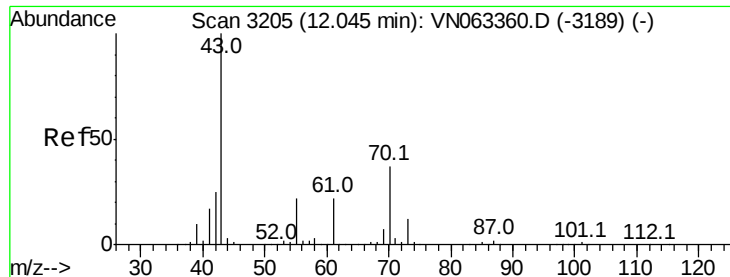
Tot Ion	Ratio	Lower	Upper
117	100		
82	61.3	49.2	73.8
119	32.0	26.2	39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063398.D
Acq: 17 Sep 2020 5:27

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.4	32.2	96.6
150	157.7	0.0	343.4





#74

N-amvl acetate

Concen: 0.609 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(D-0)

Tot Ion: 43 Resp: 4185

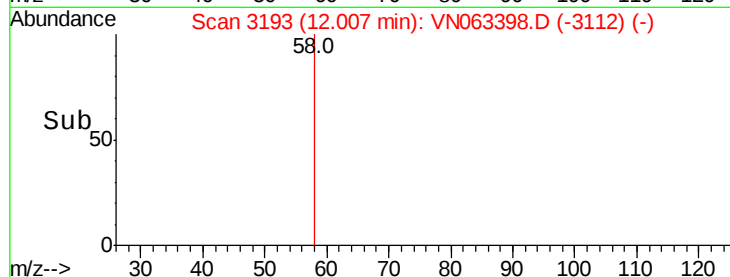
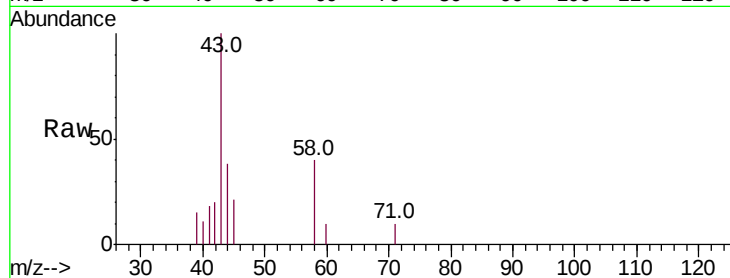
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 2.6 17.7 26.5#

61 0.0 17.4 26.2#

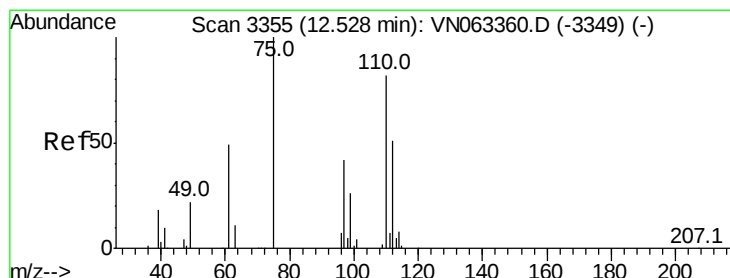
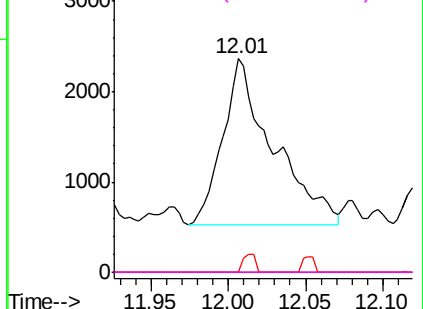


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.234 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063398.D

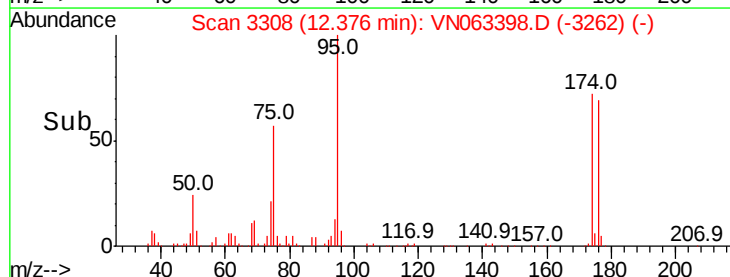
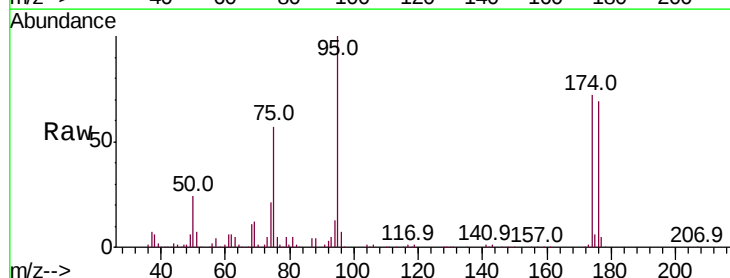
Acq: 17 Sep 2020 5:27

Tgt Ion: 75 Resp: 122074

Ion Ratio Lower Upper

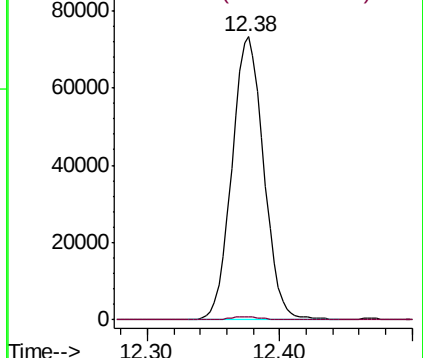
75 100

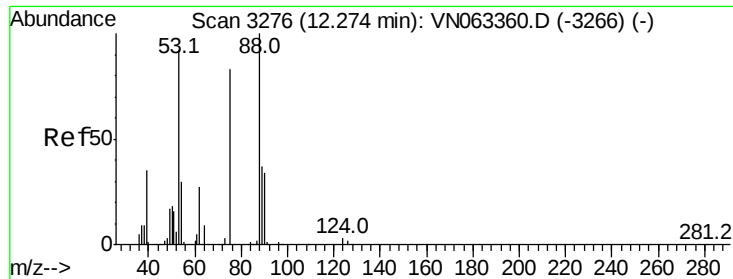
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 74.665 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063398.D

Acq: 17 Sep 2020 5:27

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(D-0)

Tot Ion: 75 Resp: 122074

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

