

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063402.D
 Acq On : 17 Sep 2020 7:03
 Operator : JC/MD
 Sample : L4015-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-6E-(D-4)

Quant Time: Sep 17 07:29:28 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	224890	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	417968	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	414363	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	179266	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	186845	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
35) Dibromofluoromethane	7.55	113	135977	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	
50) Toluene-d8	10.06	98	539022	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
62) 4-Bromofluorobenzene	12.38	95	213547	53.54	ug/l	0.00
Spiked Amount			Recovery	=	107.08%	

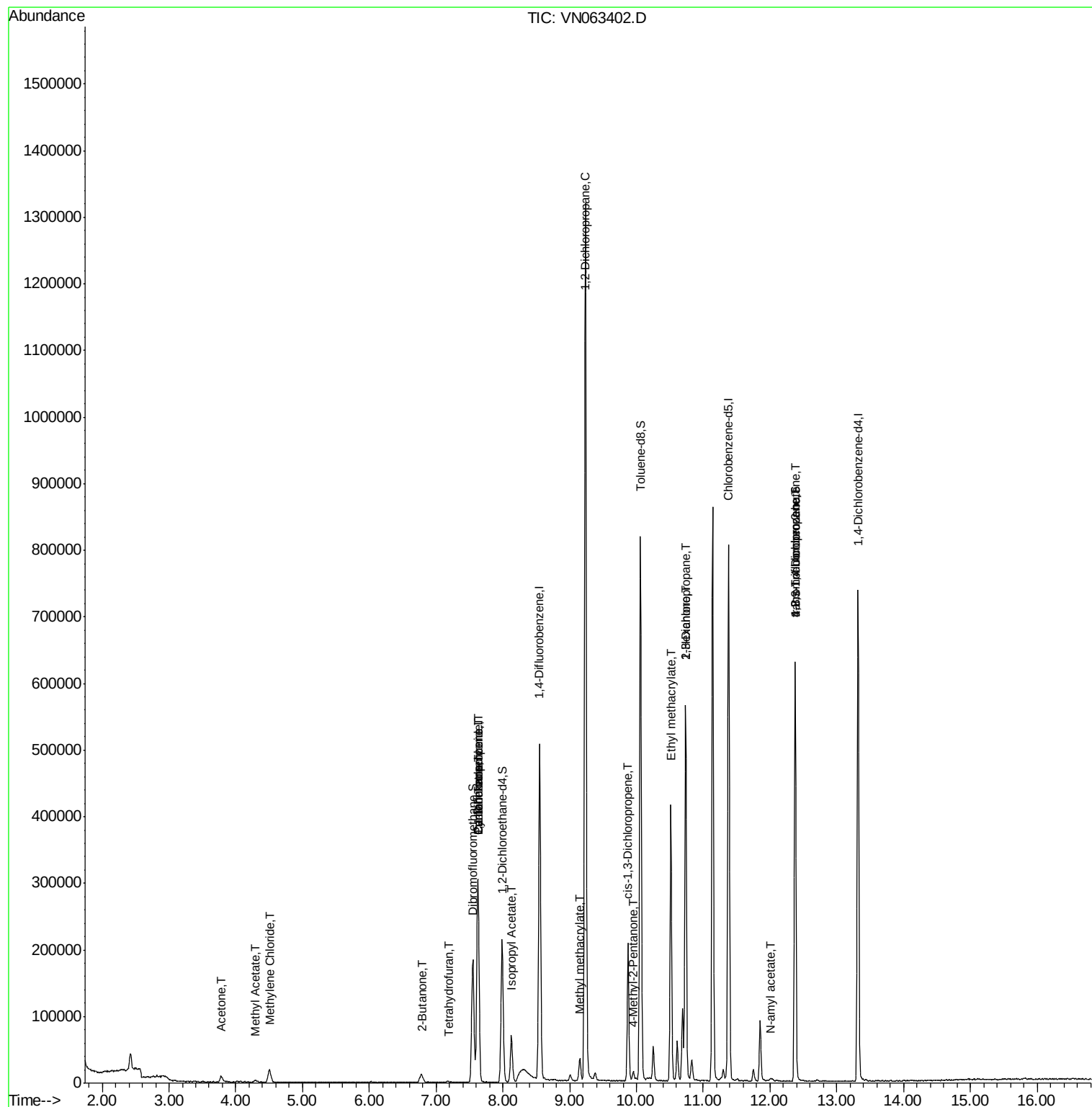
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	15737	12.791	ug/l	96
18) Methyl Acetate	4.30	43	5874	1.881	ug/l #	70
20) Methylene Chloride	4.50	84	13381	4.293	ug/l	96
25) 2-Butanone	6.80	43	5220	2.759	ug/l	91
29) Tetrahydrofuran	7.18	42	551	0.426	ug/l #	60
31) Cyclohexane	7.63	56	6216	1.176	ug/l #	29
36) 1,1-Dichloropropene	7.62	75	21101	4.739	ug/l #	48
38) Carbon Tetrachloride	7.62	117	24866	5.470	ug/l #	18
43) Isopropyl Acetate	8.13	43	84461	10.808	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1499	0.433	ug/l #	43
48) Methyl methacrylate	9.14	41	4817	1.255	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	9942	2.273	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	34260	6.155	ug/l #	63
56) Ethyl methacrylate	10.51	69	1452	0.306	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5737	1.048	ug/l #	42
59) 2-Hexanone	10.74	43	88714	27.990	ug/l #	54
74) N-amyl acetate	12.01	43	2760	0.406	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	118810	26.777	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	118810	73.411	ug/l #	7

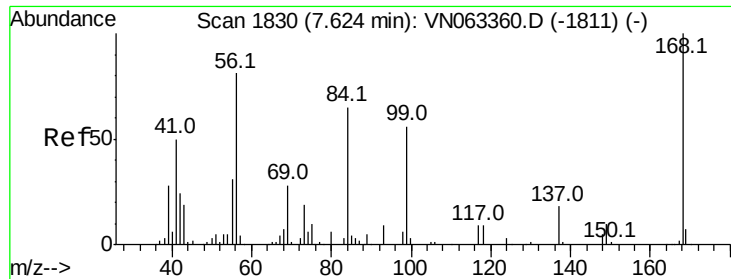
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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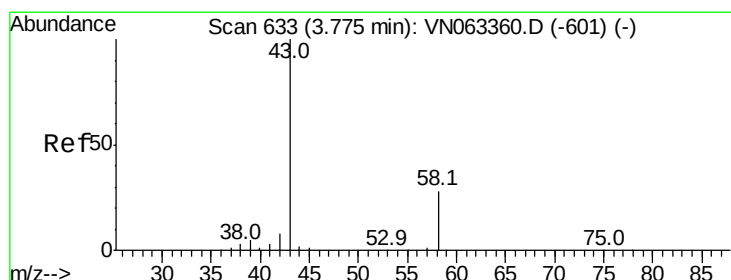
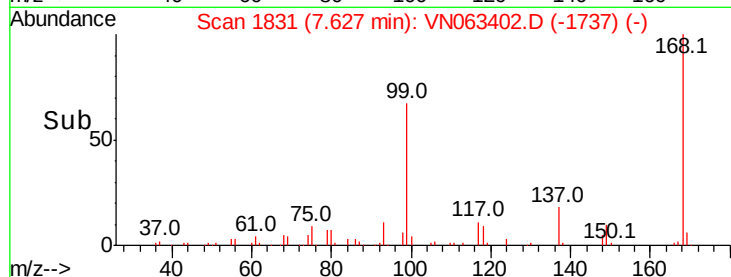
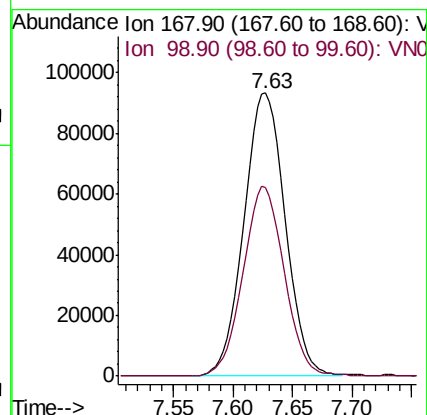
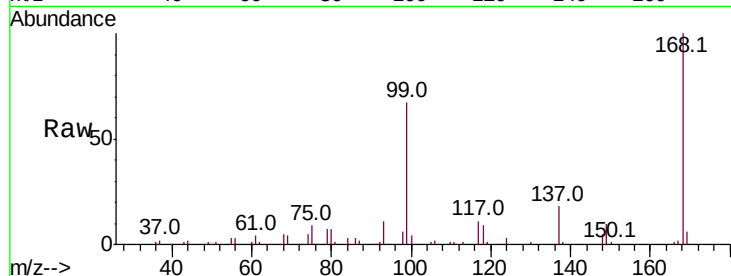




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VN063402.D
Acq: 17 Sep 2020 7:03

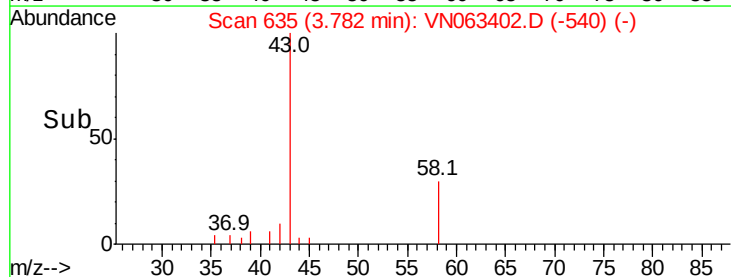
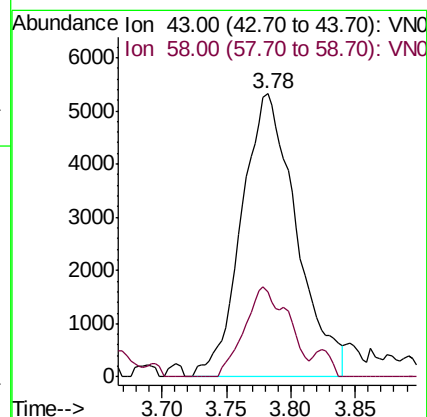
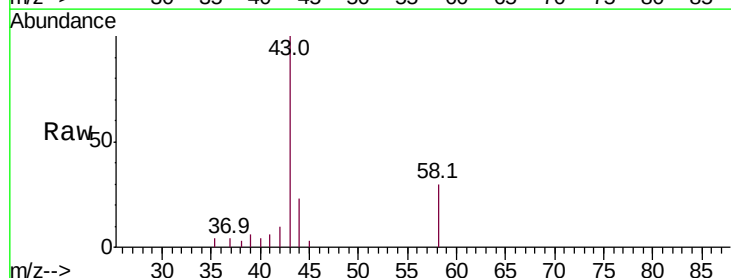
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(D-4)

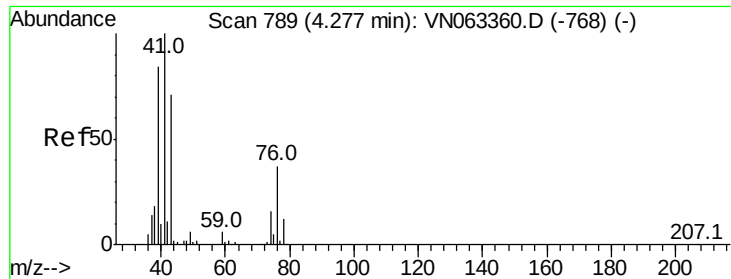
Tot Ion:168 Resp: 224890
Ion Ratio Lower Upper
168 100
99 66.8 53.0 79.6



#16
Acetone
Concen: 12.791 ug/l
RT: 3.78 min Scan# 635
Delta R.T. 0.01 min
Lab File: VN063402.D
Acq: 17 Sep 2020 7:03

Tgt Ion: 43 Resp: 15737
Ion Ratio Lower Upper
43 100
58 30.2 22.3 33.5

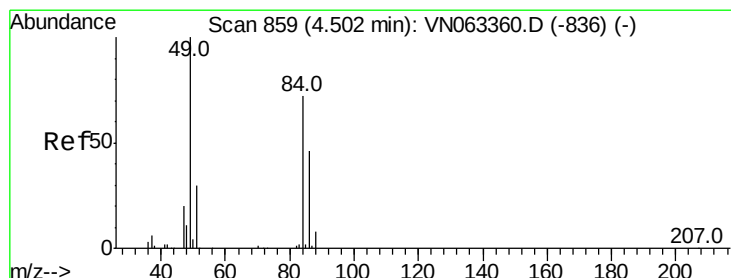
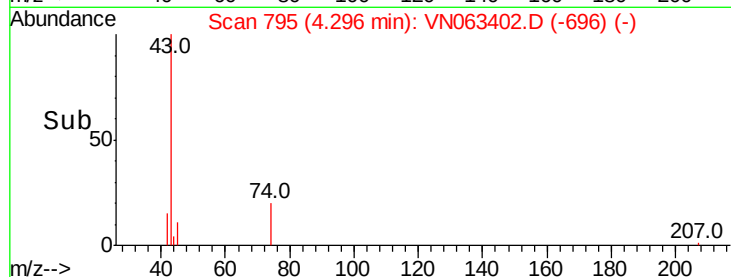
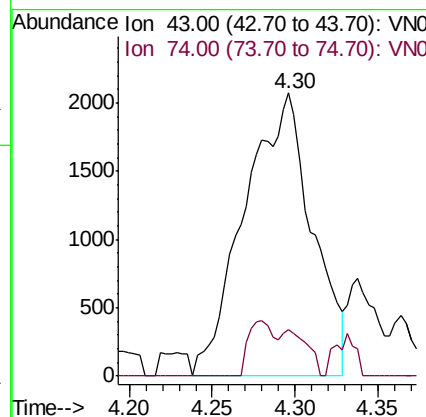
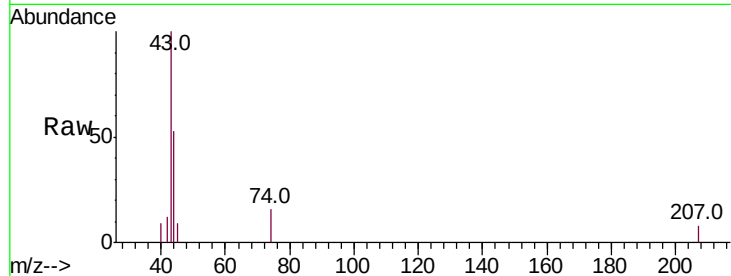




#18
Methyl Acetate
Concen: 1.881 ug/l
RT: 4.30 min Scan# 795
Delta R.T. 0.02 min
Lab File: VN063402.D
Acq: 17 Sep 2020 7:03

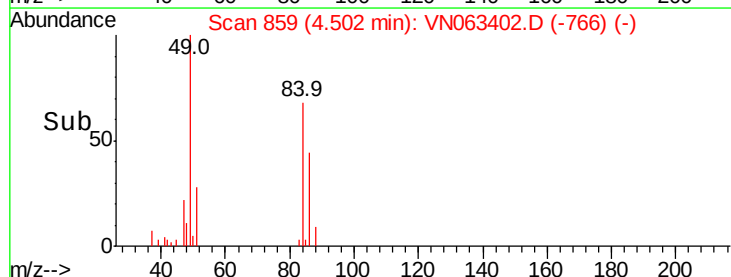
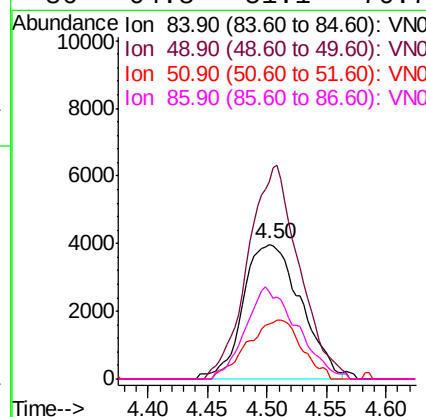
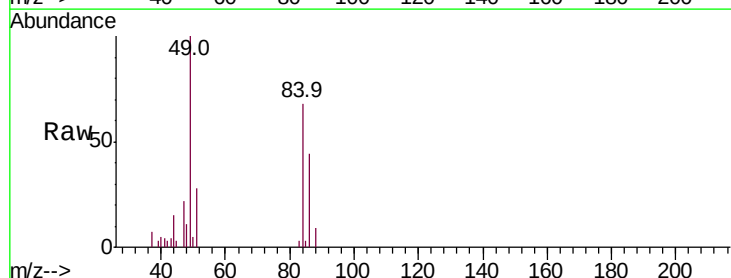
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(D-4)

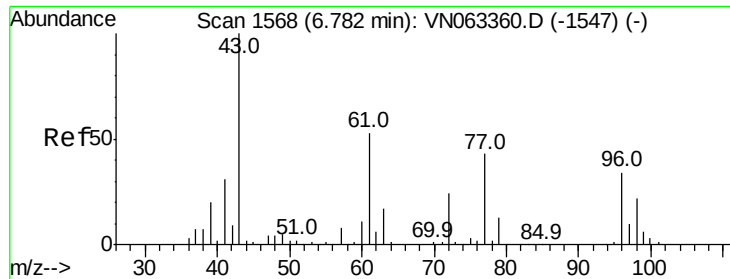
Tot Ion: 43 Resp: 5874
Ion Ratio Lower Upper
43 100
74 7.6 17.4 26.2#



#20
Methylene Chloride
Concen: 4.293 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063402.D
Acq: 17 Sep 2020 7:03

Tgt Ion: 84 Resp: 13381
Ion Ratio Lower Upper
84 100
49 146.7 110.7 166.1
51 41.1 32.9 49.3
86 64.8 51.1 76.7

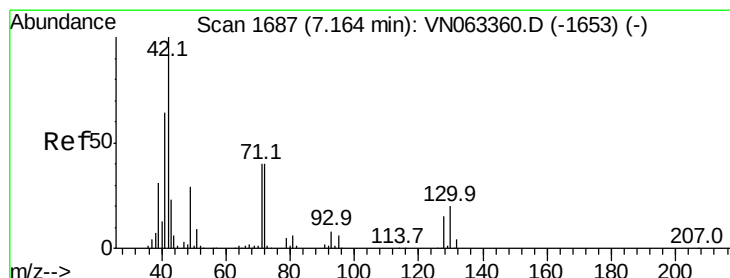
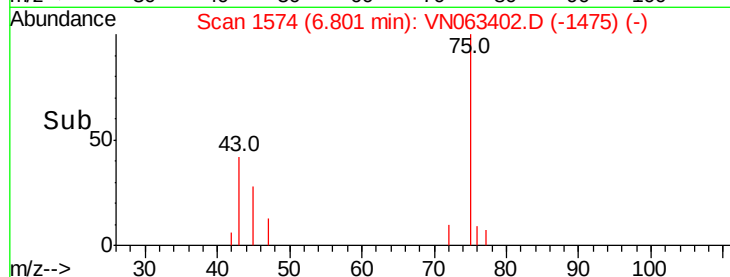
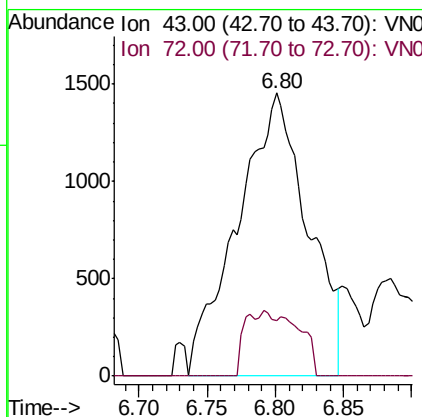
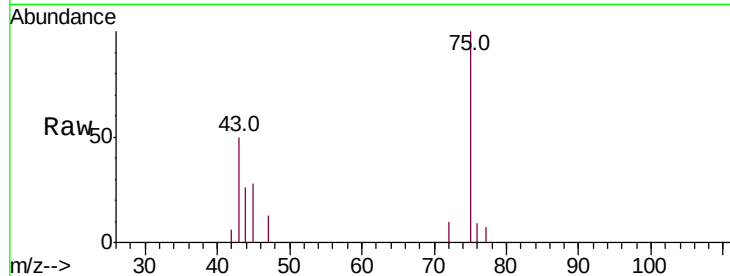




#25
 2-Butanone
 Concen: 2.759 ug/l
 RT: 6.80 min Scan# 1574
 Delta R.T. 0.02 min
 Lab File: VN063402.D
 Acq: 17 Sep 2020 7:03

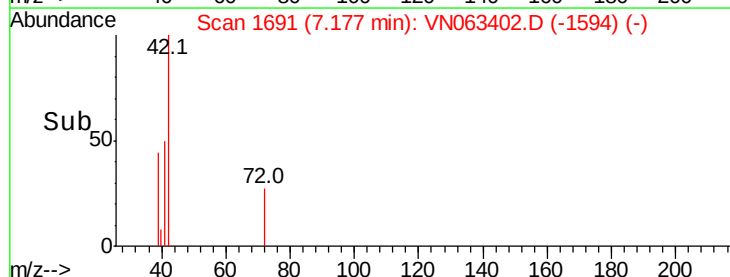
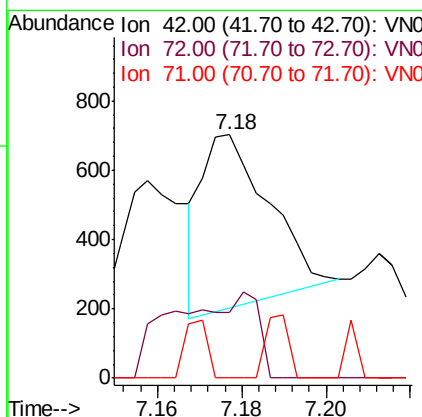
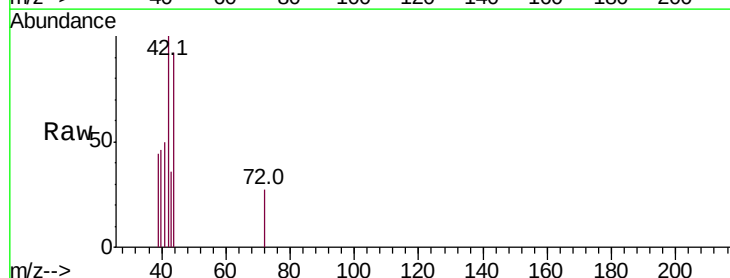
Instrument :
 MSVOA_N
 ClientSampleId :
 REACTOR-6E-(D-4)

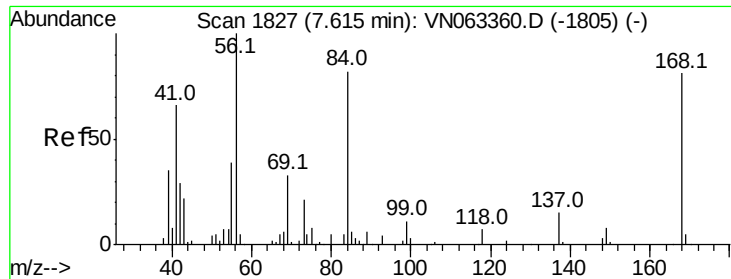
Tot Ion: 43 Resp: 5220
 Ion Ratio Lower Upper
 43 100
 72 19.6 19.2 28.8



#29
 Tetrahydrofuran
 Concen: 0.426 ug/l
 RT: 7.18 min Scan# 1691
 Delta R.T. 0.01 min
 Lab File: VN063402.D
 Acq: 17 Sep 2020 7:03

Tgt Ion: 42 Resp: 551
 Ion Ratio Lower Upper
 42 100
 72 62.1 32.1 48.1#
 71 11.4 31.2 46.8#

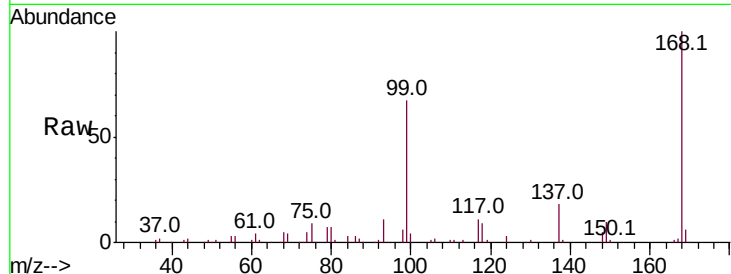




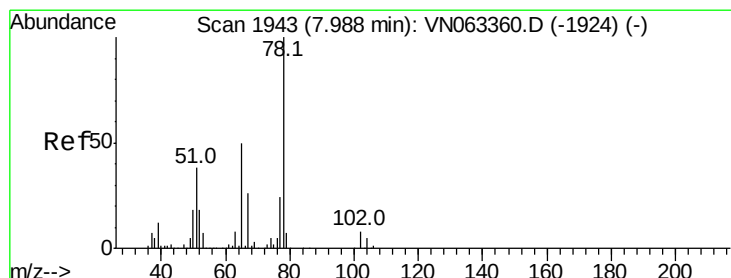
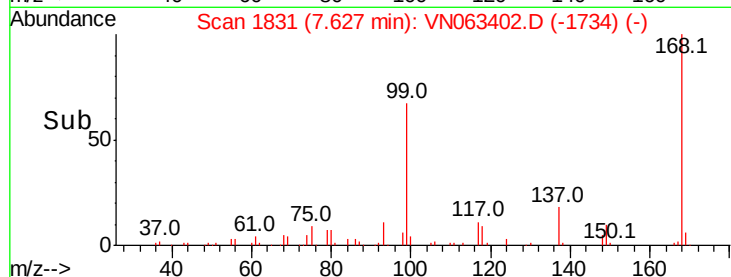
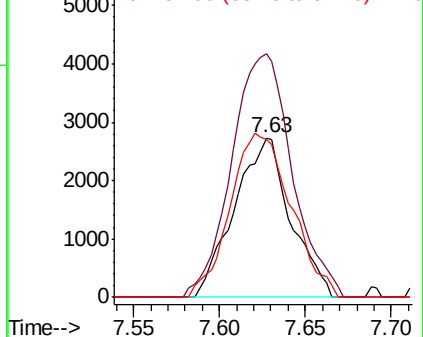
#31
Cyclohexane
Concen: 1.176 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063402.D
Acq: 17 Sep 2020 7:03

Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(D-4)

Tot Ion: 56 Resp: 6216
Ion Ratio Lower Upper
56 100
69 146.7 26.1 39.1#
84 98.8 65.4 98.2#

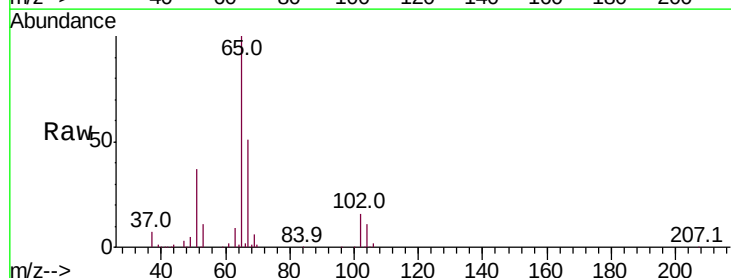


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

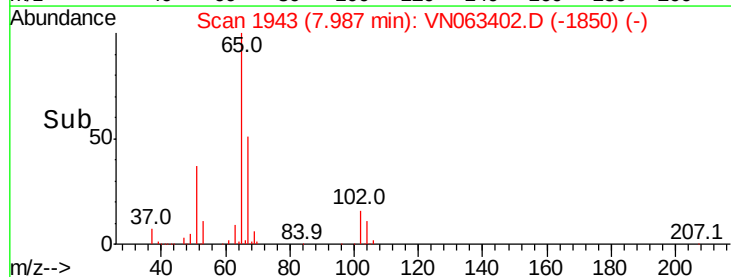
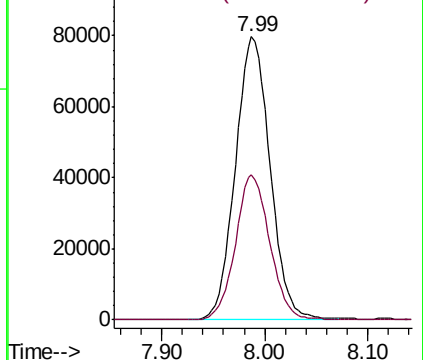


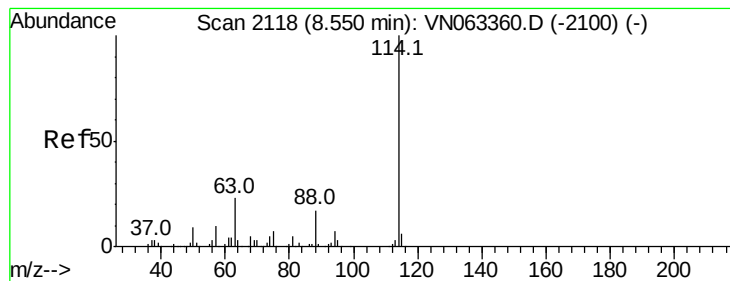
#33
1,2-Dichloroethane-d4
Concen: 48.807 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063402.D
Acq: 17 Sep 2020 7:03

Tgt Ion: 65 Resp: 186845
Ion Ratio Lower Upper
65 100
67 50.2 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063402.D

Acq: 17 Sep 2020 7:03

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(D-4)

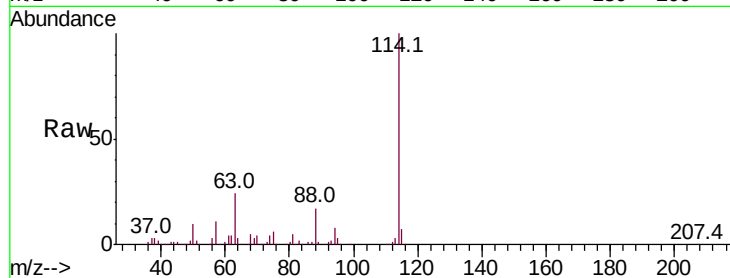
Tot Ion:114 Resp: 417968

Ion Ratio Lower Upper

114 100

63 24.4 0.0 46.4

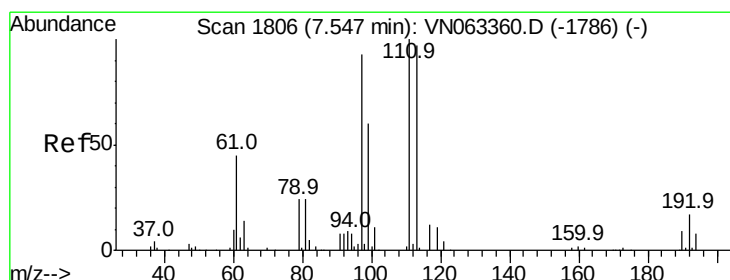
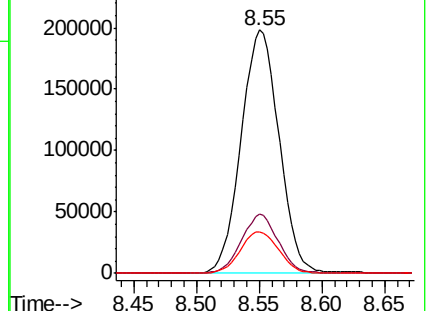
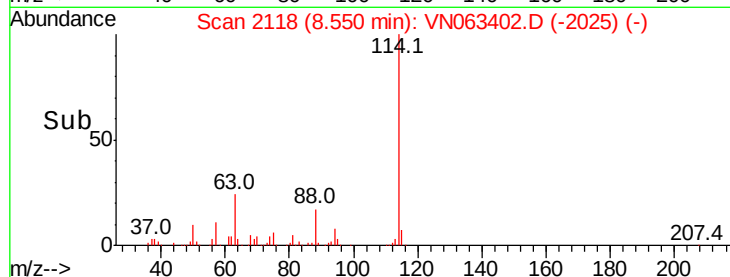
88 17.0 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 46.994 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063402.D

Acq: 17 Sep 2020 7:03

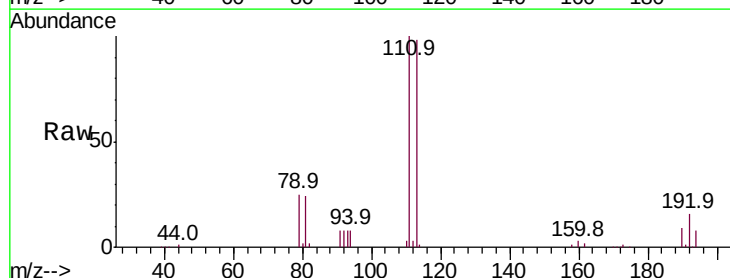
Tgt Ion:113 Resp: 135977

Ion Ratio Lower Upper

113 100

111 103.8 82.9 124.3

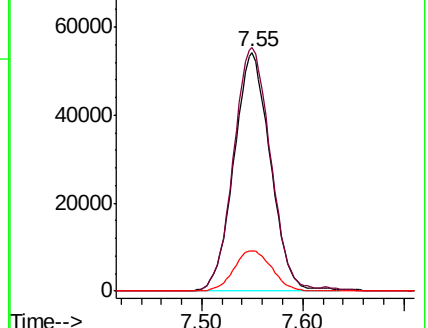
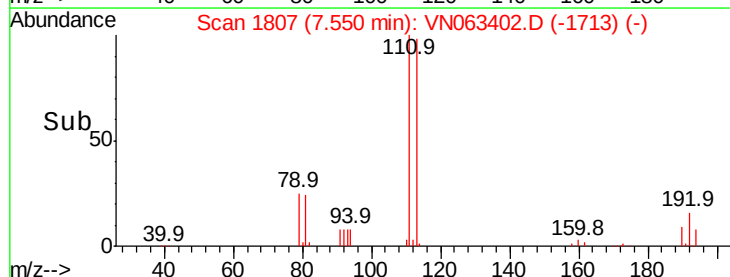
192 17.5 13.9 20.9

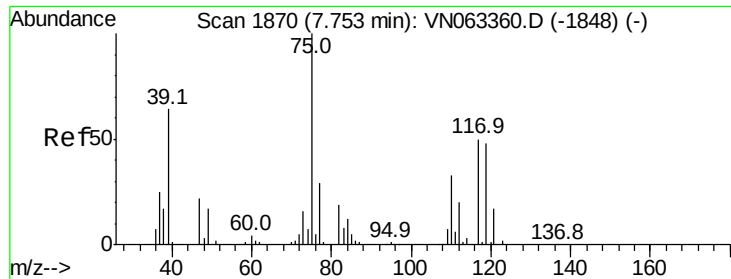


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.739 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063402.D

Acq: 17 Sep 2020 7:03

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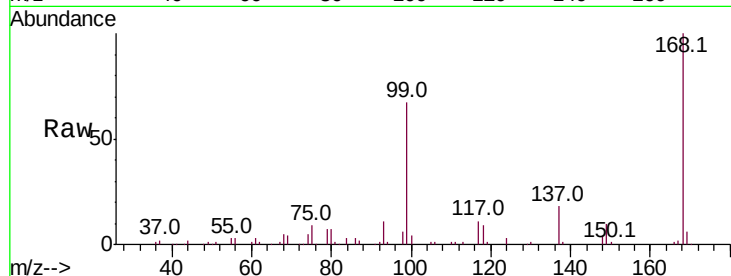
Tot Ion: 75 Resp: 21101

Ion Ratio Lower Upper

75 100

110 6.0 16.5 49.5#

77 0.0 24.6 36.8#



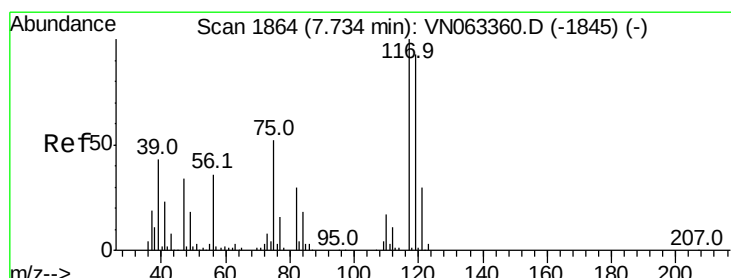
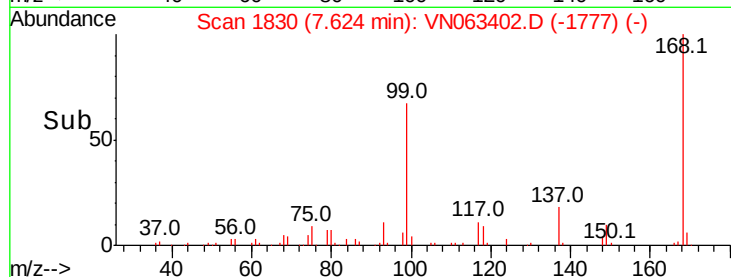
Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063360.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-1848) (-)

7.62

Time-->



#38

Carbon Tetrachloride

Concen: 5.470 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063402.D

Acq: 17 Sep 2020 7:03

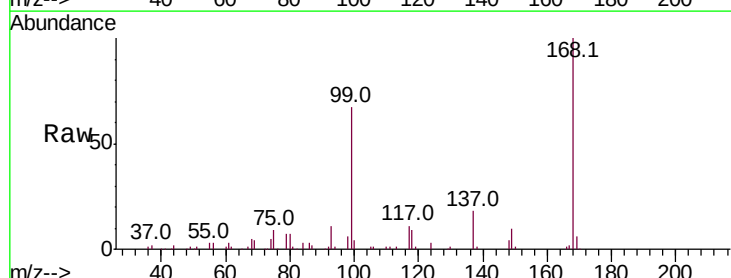
Tgt Ion: 117 Resp: 24866

Ion Ratio Lower Upper

117 100

119 5.6 74.5 111.7#

121 0.0 24.1 36.1#



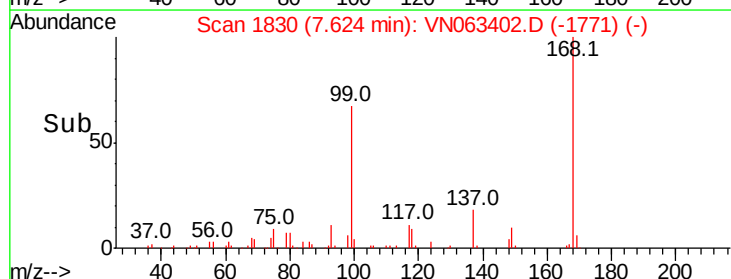
Abundance Ion 116.80 (116.50 to 117.50): VN063360.D (-1845) (-)

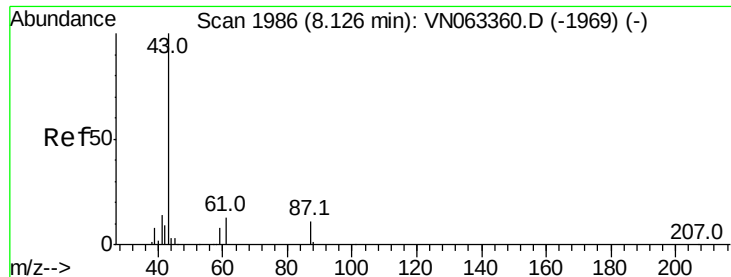
Ion 118.80 (118.50 to 119.50): VN063360.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN063360.D (-1845) (-)

7.62

Time-->





#43

Isopropyl Acetate

Concen: 10.808 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063402.D

Acq: 17 Sep 2020 7:03

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(D-4)

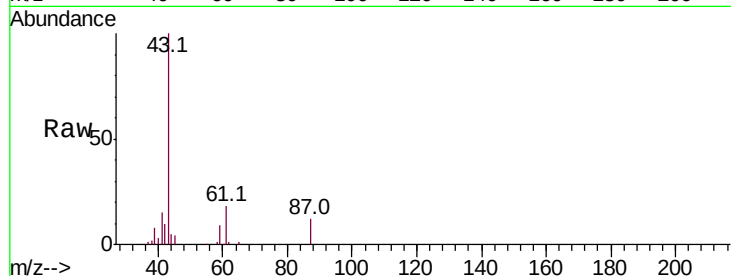
Tot Ion: 43 Resp: 84461

Ion Ratio Lower Upper

43 100

61 17.9 14.2 21.2

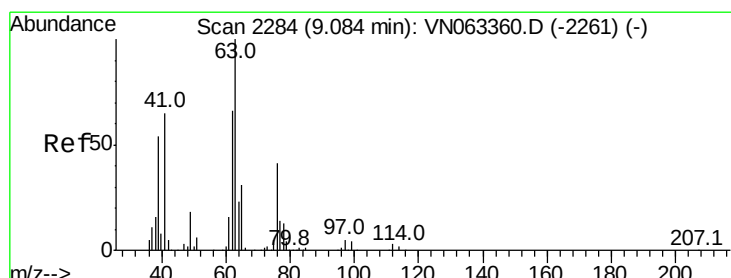
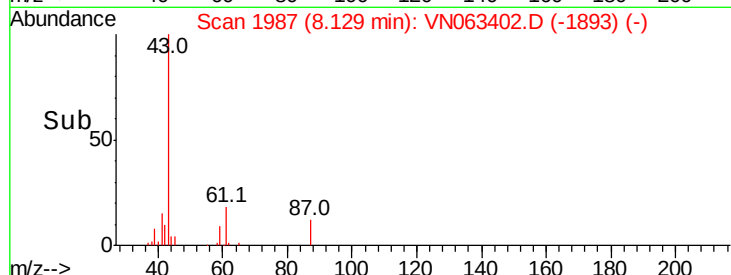
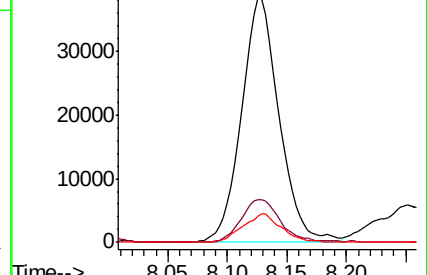
87 11.8 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063360.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063360.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.433 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN063402.D

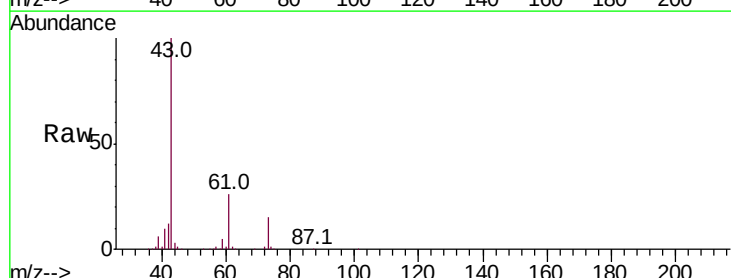
Acq: 17 Sep 2020 7:03

Tgt Ion: 63 Resp: 1499

Ion Ratio Lower Upper

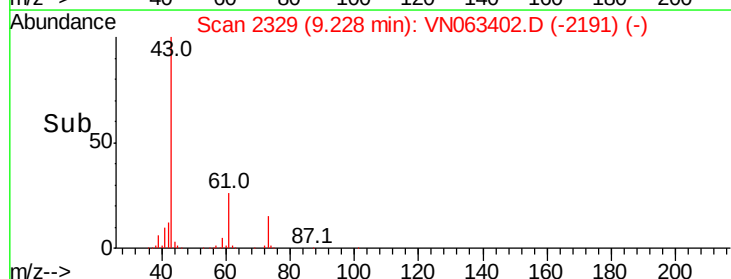
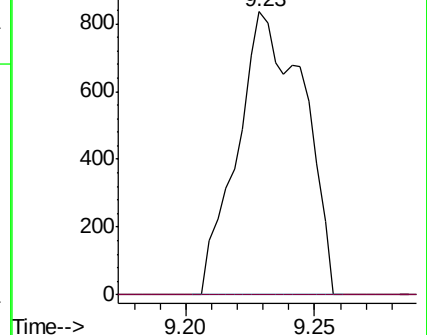
63 100

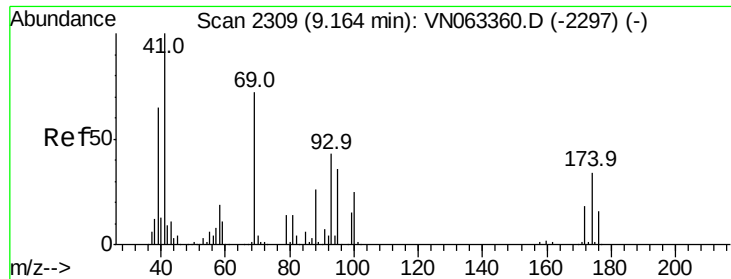
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN063360.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN063360.D (-2261) (-)

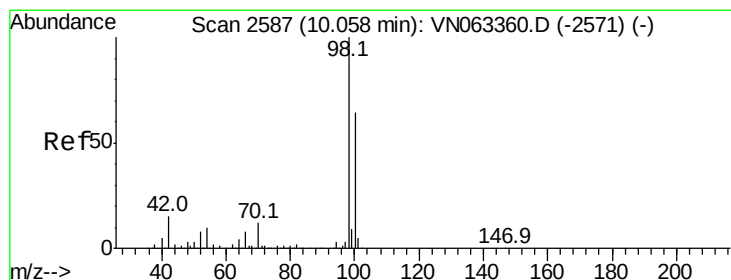
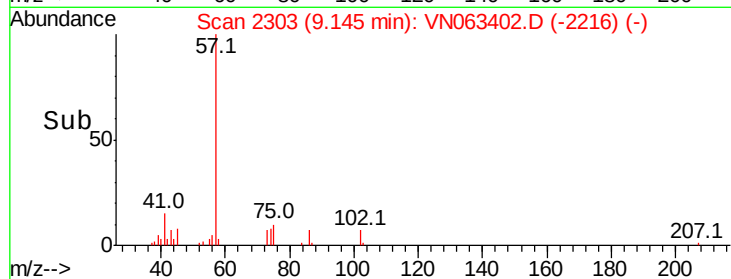
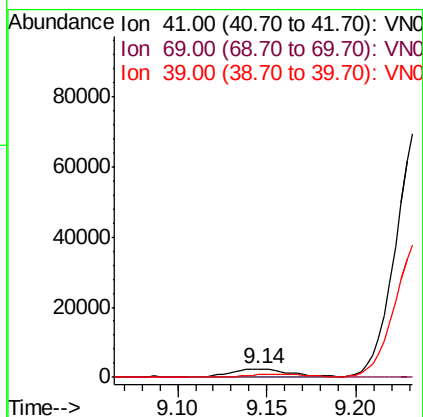
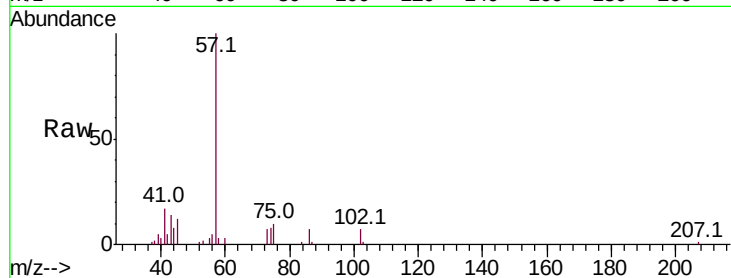




#48
Methvl methacrylate
Concen: 1.255 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN063402.D
Acq: 17 Sep 2020 7:03

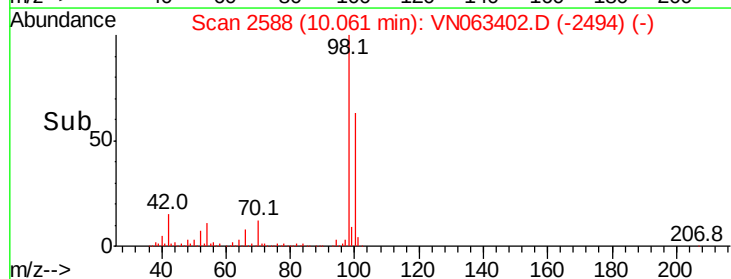
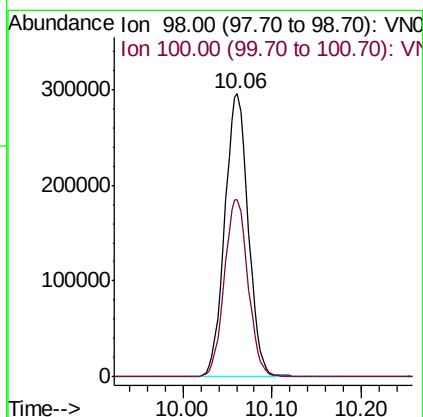
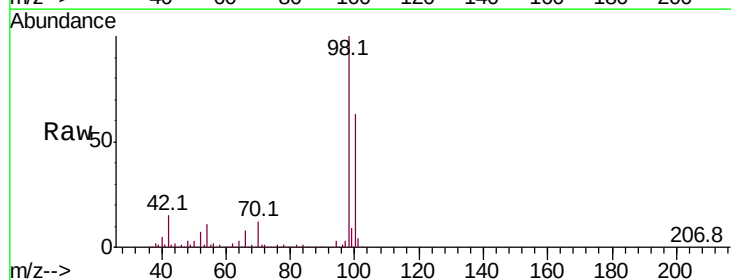
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(D-4)

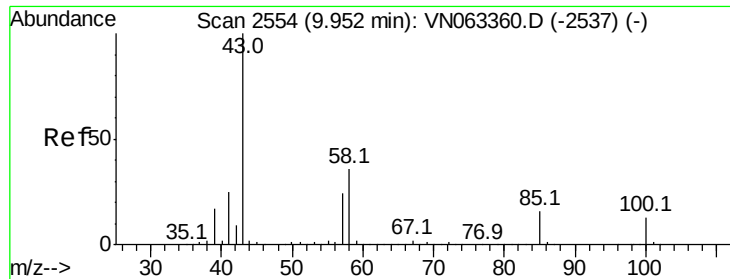
Tot Ion: 41 Resp: 4817
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#



#50
Toluene-d8
Concen: 49.542 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063402.D
Acq: 17 Sep 2020 7:03

Tgt Ion: 98 Resp: 539022
Ion Ratio Lower Upper
98 100
100 63.2 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 2.273 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063402.D

Acq: 17 Sep 2020 7:03

Instrument :

MSVOA_N

ClientSampleId :

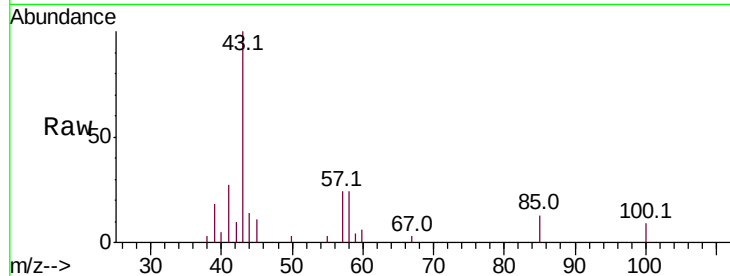
REACTOR-6E-(D-4)

Tot Ion: 43 Resp: 9942

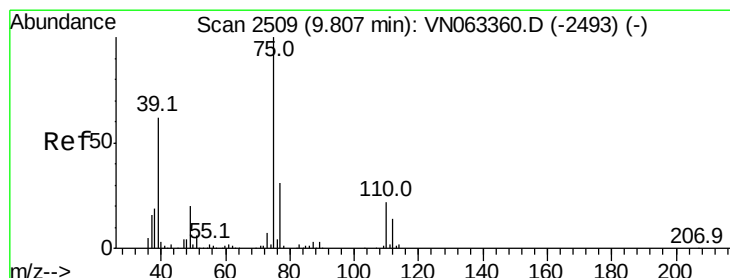
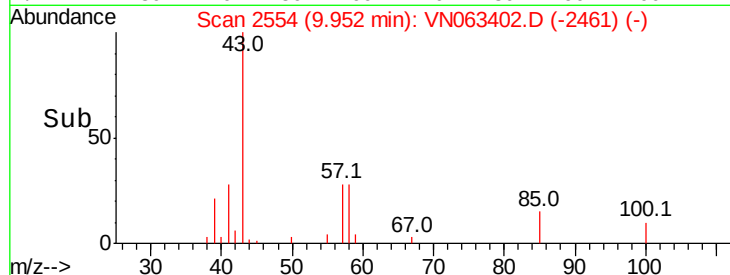
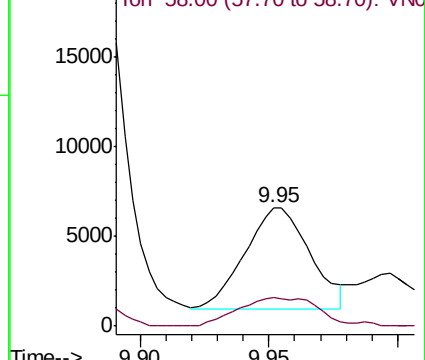
Ion Ratio Lower Upper

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: 6.155 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063402.D

Acq: 17 Sep 2020 7:03

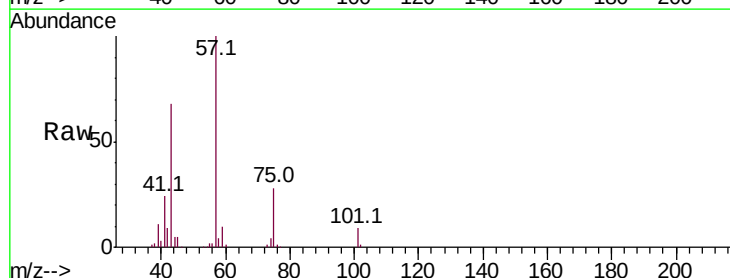
Tgt Ion: 75 Resp: 34260

Ion Ratio Lower Upper

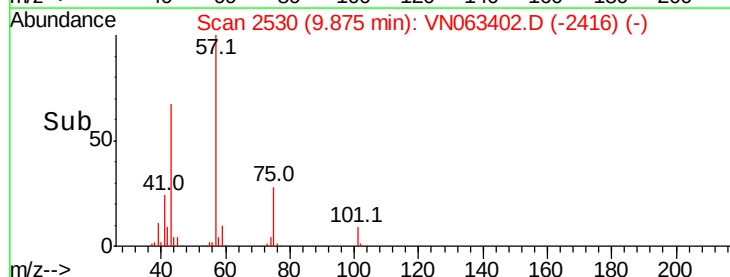
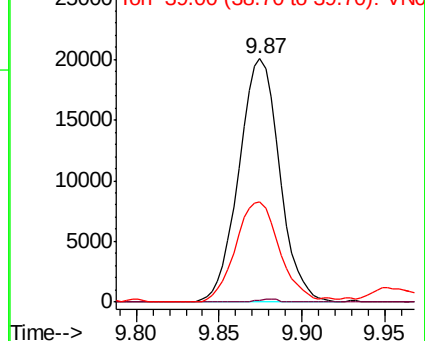
75 100

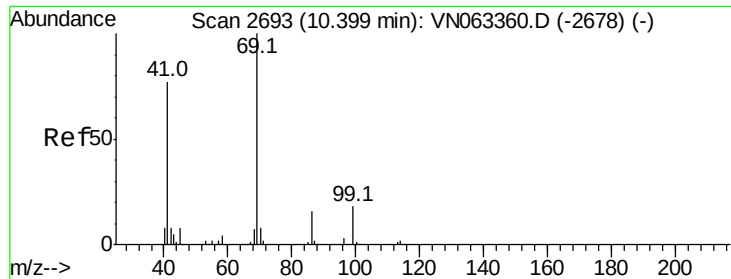
77 0.9 24.6 37.0#

39 40.0 49.8 74.8#



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





#56

Ethyl methacrylate

Concen: 0.306 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063402.D

Acq: 17 Sep 2020 7:03

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(D-4)

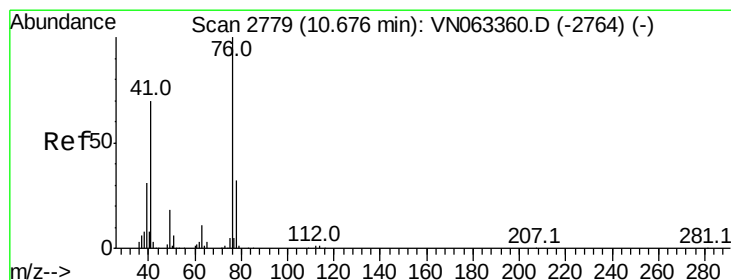
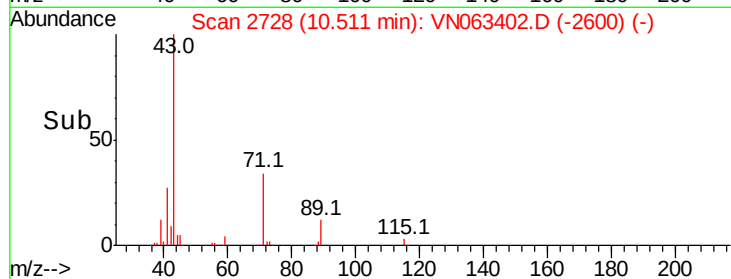
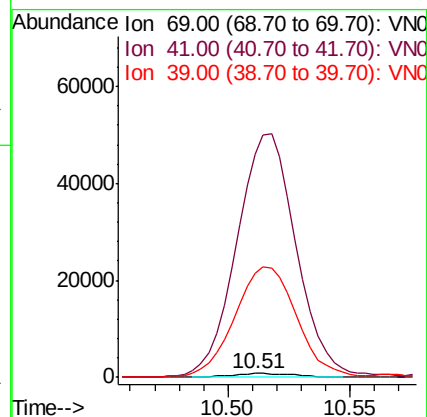
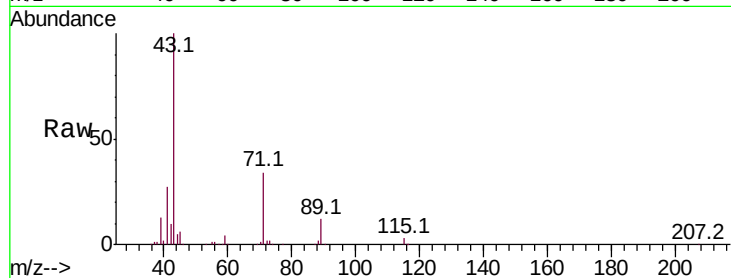
Tot Ion: 69 Resp: 1452

Ion Ratio Lower Upper

69 100

41 5888.0 61.0 91.6#

39 2783.5 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 1.048 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063402.D

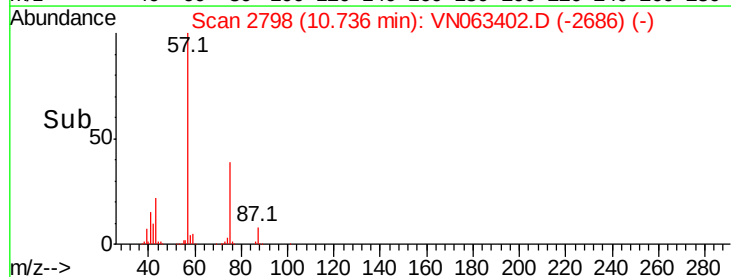
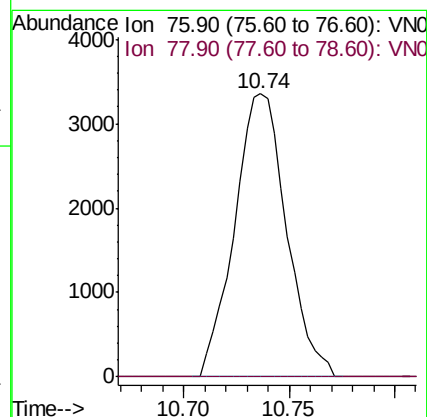
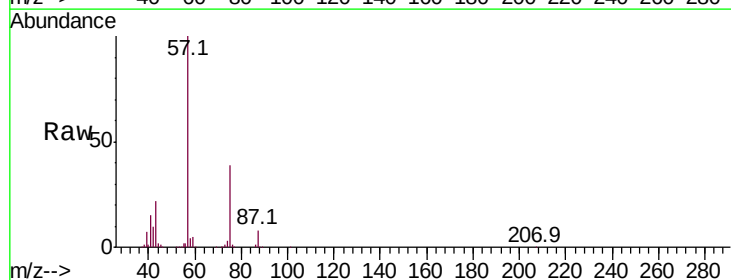
Acq: 17 Sep 2020 7:03

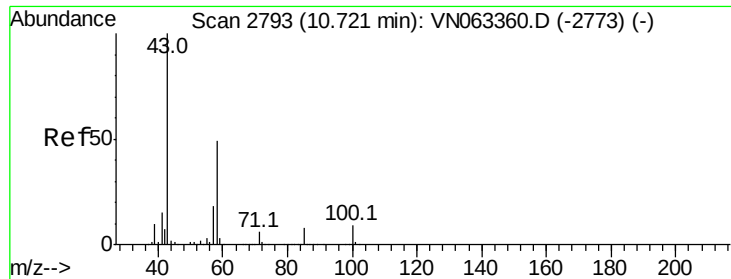
Tgt Ion: 76 Resp: 5737

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 27.990 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063402.D

Acq: 17 Sep 2020 7:03

Instrument :

MSVOA_N

ClientSampleId :

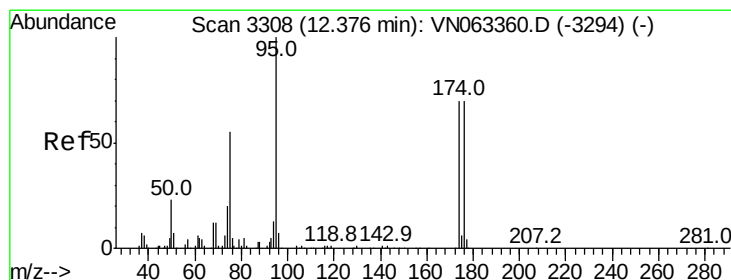
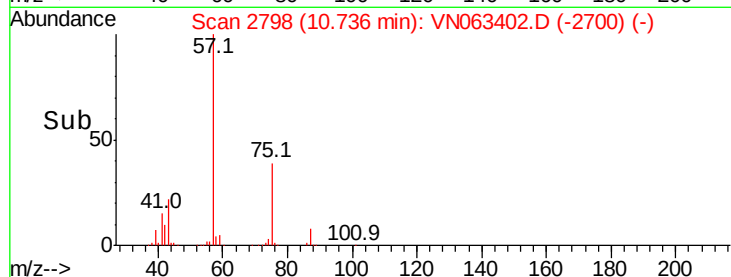
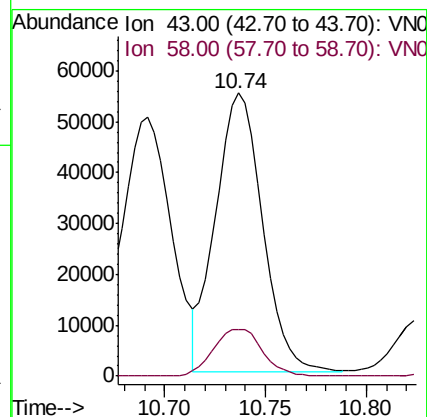
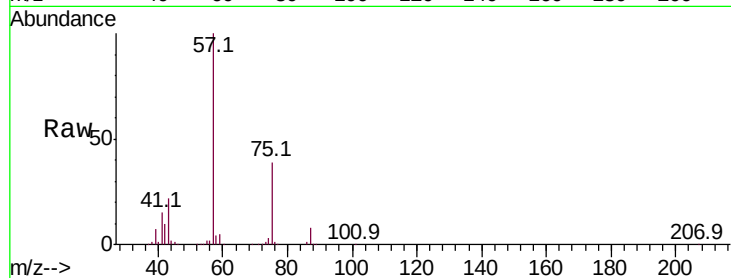
REACTOR-6E-(D-4)

Tot Ion: 43 Resp: 88714

Ion Ratio Lower Upper

43 100

58 17.7 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 53.541 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063402.D

Acq: 17 Sep 2020 7:03

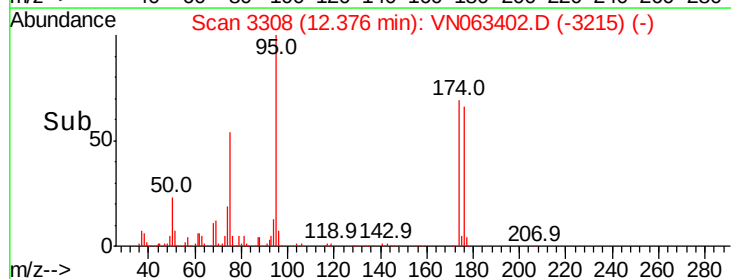
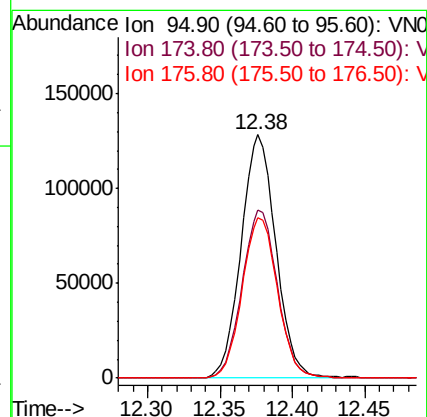
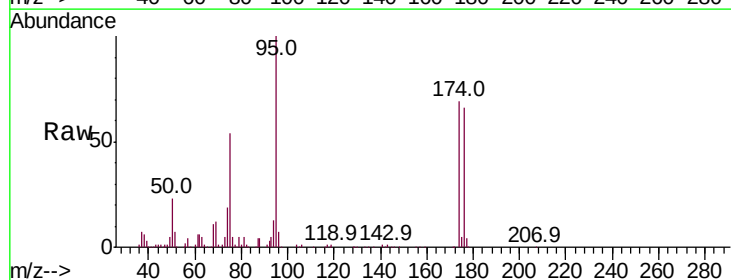
Tgt Ion: 95 Resp: 213547

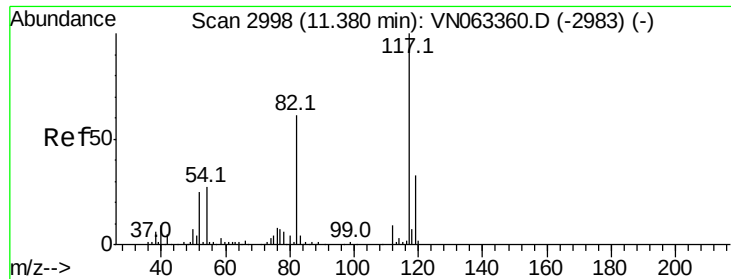
Ion Ratio Lower Upper

95 100

174 70.1 0.0 140.8

176 67.3 0.0 137.6

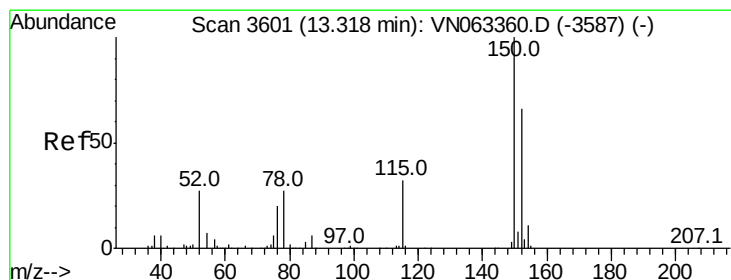
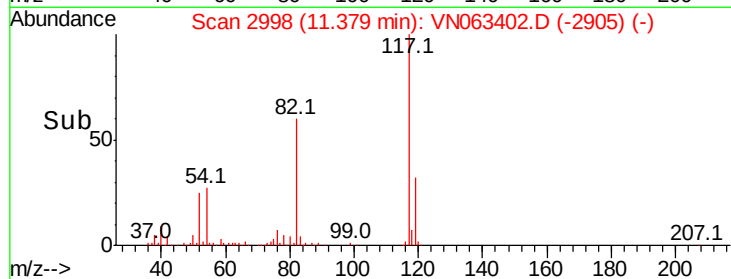
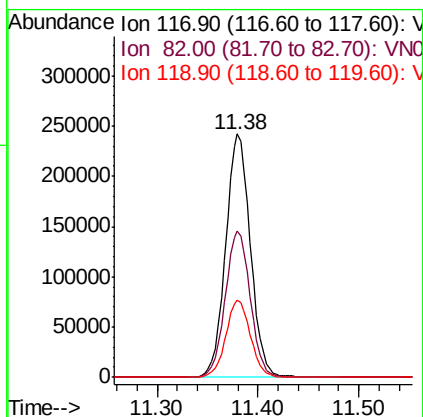
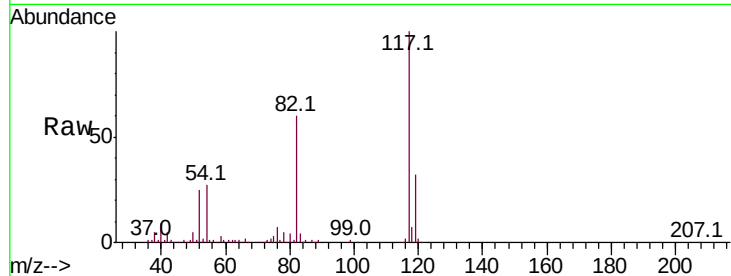




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063402.D
Acq: 17 Sep 2020 7:03

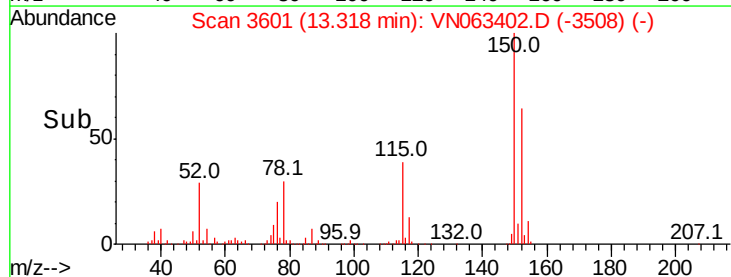
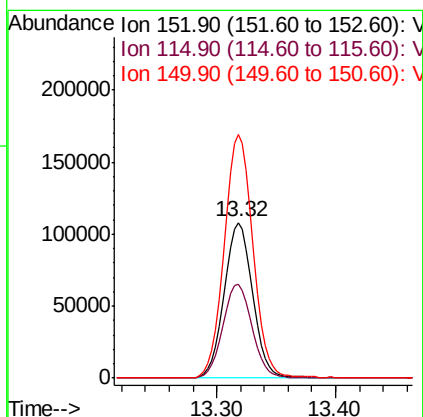
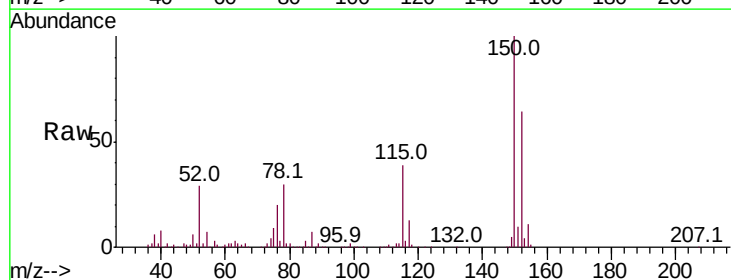
Instrument :
MSVOA_N
ClientSampleId :
REACTOR-6E-(D-4)

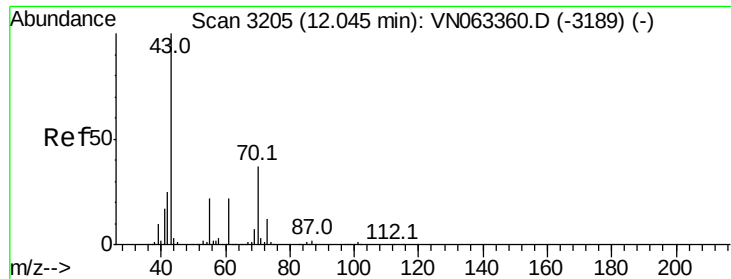
Tot Ion:117 Resp: 414363
Ion Ratio Lower Upper
117 100
82 60.1 49.2 73.8
119 31.9 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063402.D
Acq: 17 Sep 2020 7:03

Tgt Ion:152 Resp: 179266
Ion Ratio Lower Upper
152 100
115 61.9 32.2 96.6
150 157.3 0.0 343.4





#74

N-amvl acetate

Concen: 0.406 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063402.D

Acq: 17 Sep 2020 7:03

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(D-4)

Tot Ion: 43 Resp: 2760

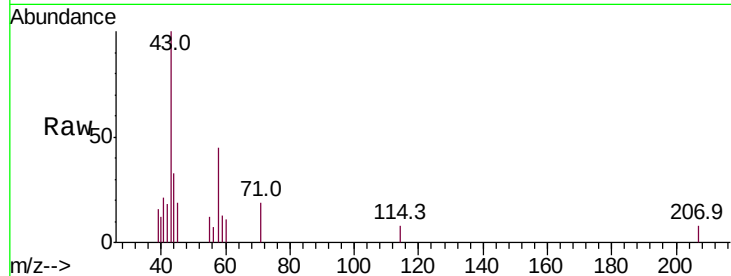
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 10.3 17.7 26.5#

61 0.0 17.4 26.2#

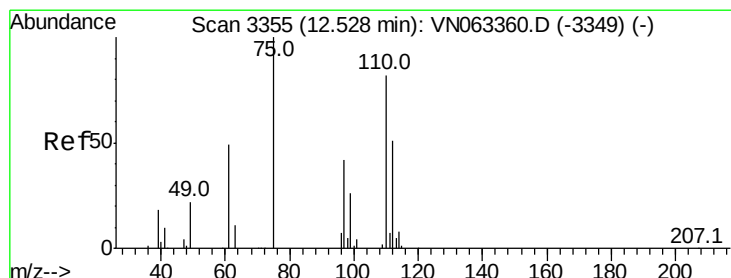
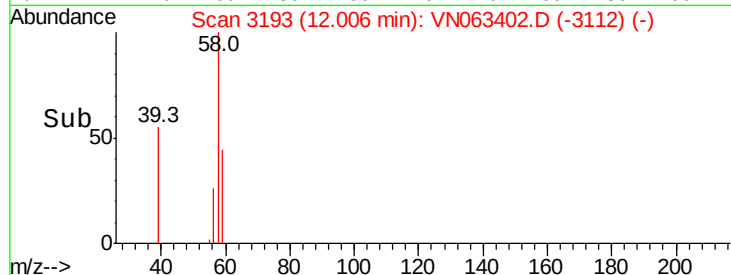
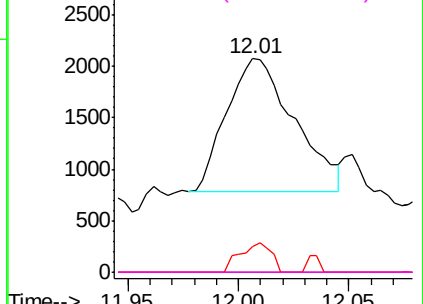


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.777 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063402.D

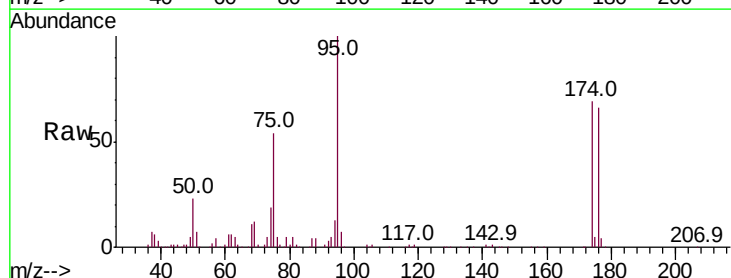
Acq: 17 Sep 2020 7:03

Tgt Ion: 75 Resp: 118810

Ion Ratio Lower Upper

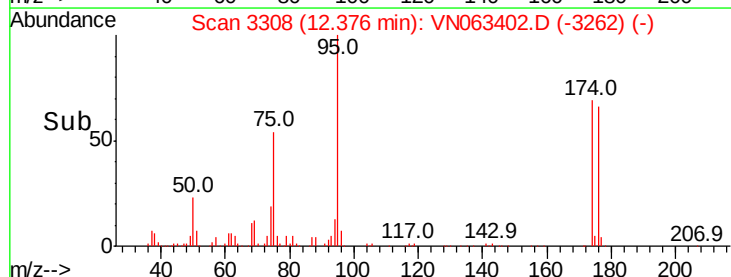
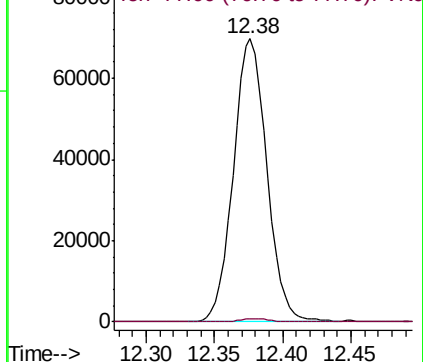
75 100

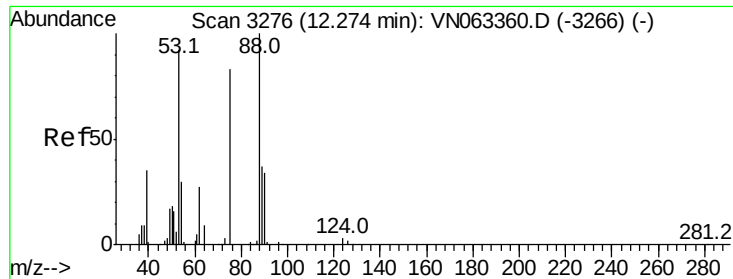
77 1.0 0.0 0.0#



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: 73.411 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063402.D

Acq: 17 Sep 2020 7:03

Instrument :

MSVOA_N

ClientSampleId :

REACTOR-6E-(D-4)

Tot Ion: 75 Resp: 118810

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

