

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101420\
 Data File : VN064125.D
 Acq On : 14 Oct 2020 20:31
 Operator : JC/MD
 Sample : L4226-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-08-101320

Quant Time: Oct 15 05:59:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101420W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 15 01:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	288209	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	546515	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	565517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	209044	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	221570	53.98	ug/l	0.00
Spiked Amount			Recovery	=	107.96%	
35) Dibromofluoromethane	7.55	113	184119	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
50) Toluene-d8	10.06	98	692326	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	
62) 4-Bromofluorobenzene	12.38	95	241496	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	

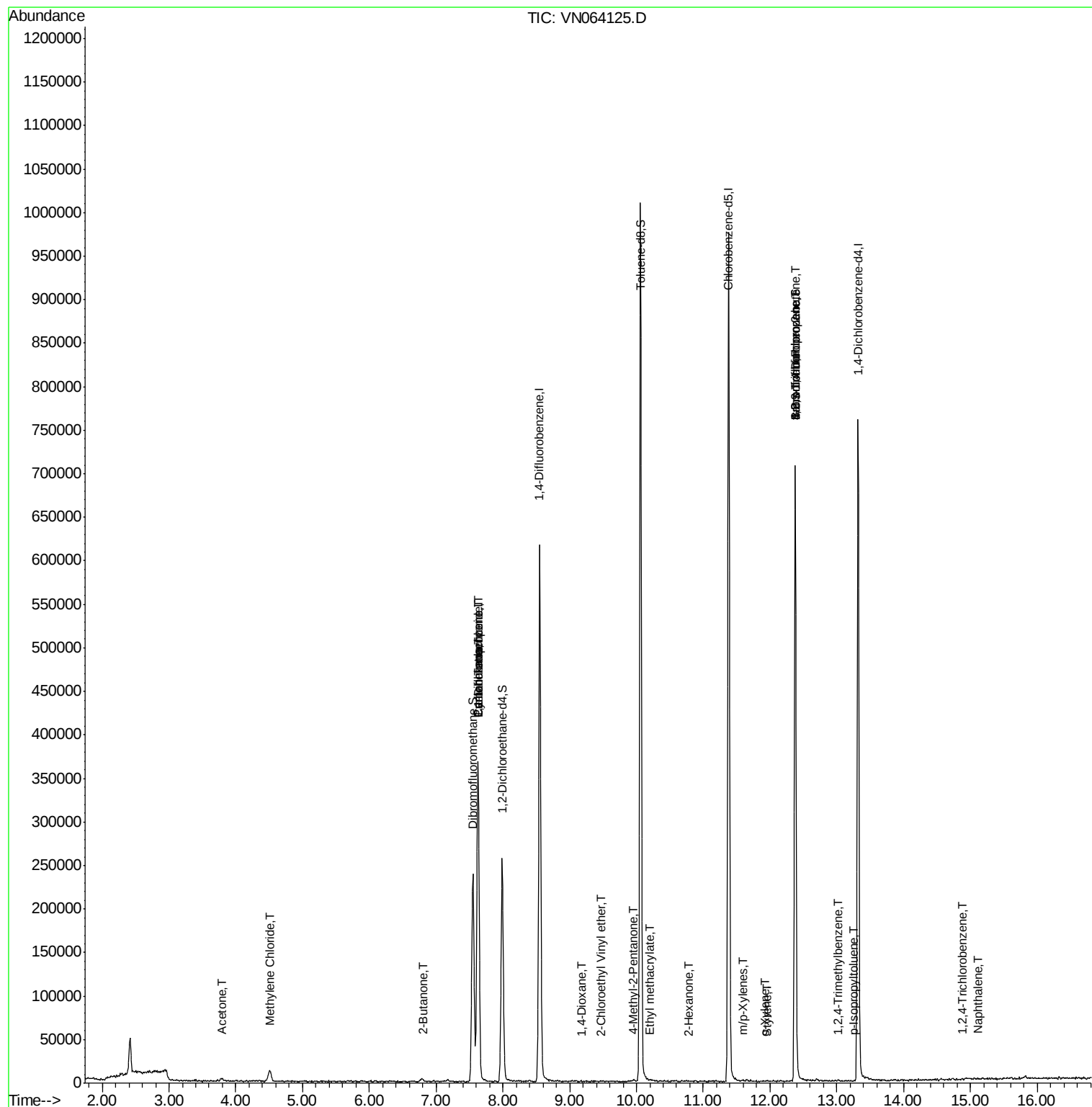
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	3009	2.471	ug/l	96
20) Methylene Chloride	4.51	84	9626	2.555	ug/l	97
25) 2-Butanone	6.80	43	1011	0.540	ug/l #	47
31) Cyclohexane	7.63	56	6963	1.534	ug/l #	33
36) 1,1-Dichloropropene	7.63	75	25341	4.811	ug/l #	44
38) Carbon Tetrachloride	7.63	117	31322	5.530	ug/l #	16
49) 1,4-Dioxane	9.16	88	34	0.625	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	1264	0.275	ug/l #	62
56) Ethyl methacrylate	10.21	69	73	2.310	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.46	63	30	12.229	ug/l #	48
59) 2-Hexanone	10.78	43	257	6.908	ug/l	77
68) m/p-Xylenes	11.60	106	63	2.199	ug/l #	1
69) o-Xylene	11.92	106	64	1.591	ug/l	81
70) Styrene	11.95	104	64	2.041	ug/l #	59
71) Bromoform	12.37	173	902	2.461	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	128260	26.153	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	128260	79.901	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.02	105	440	0.219	ug/l	68
86) p-Isopropyltoluene	13.26	119	297	0.686	ug/l #	50
93) 1,2,4-Trichlorobenzene	14.89	180	81	3.203	ug/l #	86
95) Naphthalene	15.12	128	949	3.883	ug/l #	70

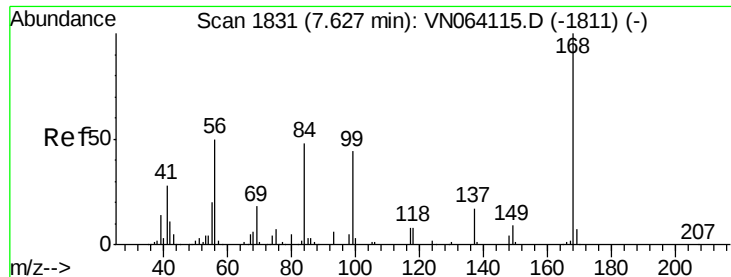
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 14 Oct 2020 20:31
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N101420W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 15 01:16:44 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: VN064125.D

Acq: 14 Oct 2020 20:31

Instrument :

MSVOA_N

ClientSampleId :

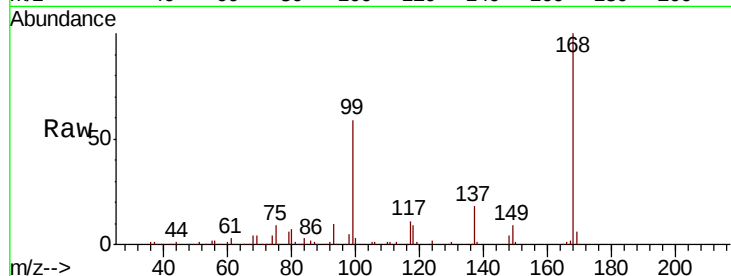
TR-08-101320

Tot Ion:168 Resp: 288209

Ion Ratio Lower Upper

168 100

99 58.7 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): VN064125.D (-1738) (-)

Ion 98.90 (98.60 to 99.60): VN064125.D (-1738) (-)

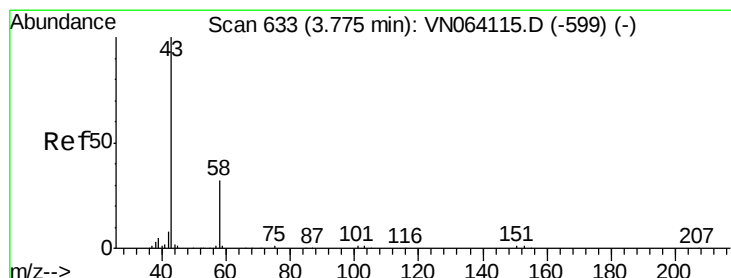
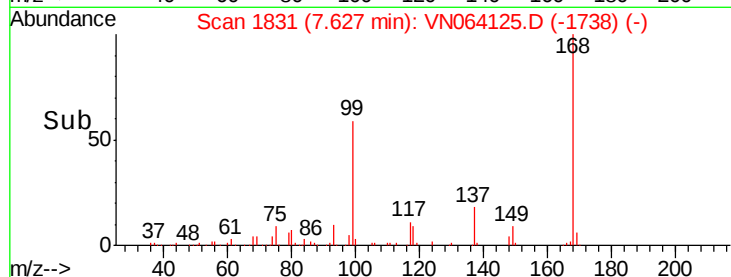
7.63

100000

50000

0

Time-->



#16

Acetone

Concen: 2.471 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064125.D

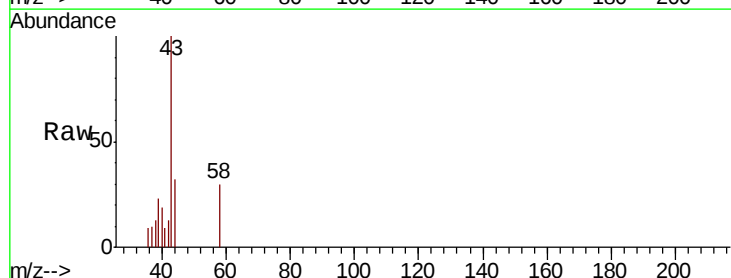
Acq: 14 Oct 2020 20:31

Tgt Ion: 43 Resp: 3009

Ion Ratio Lower Upper

43 100

58 29.5 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN064125.D (-540) (-)

Ion 58.00 (57.70 to 58.70): VN064125.D (-540) (-)

3.78

2000

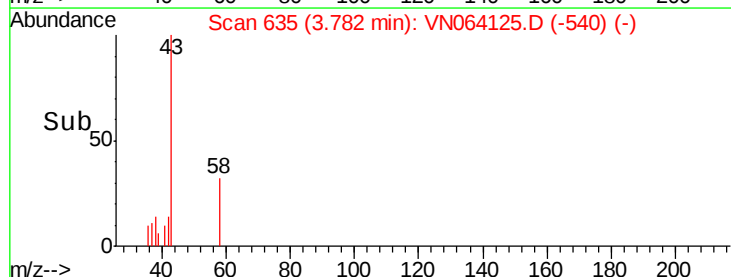
1500

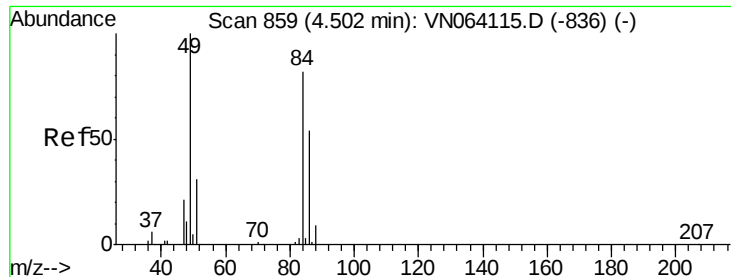
1000

500

0

Time-->

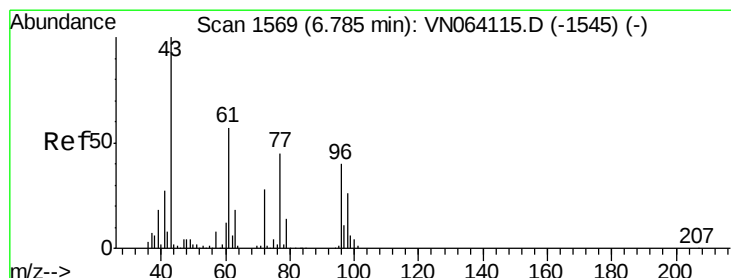
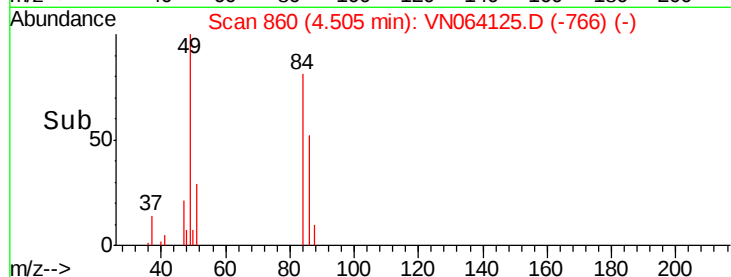
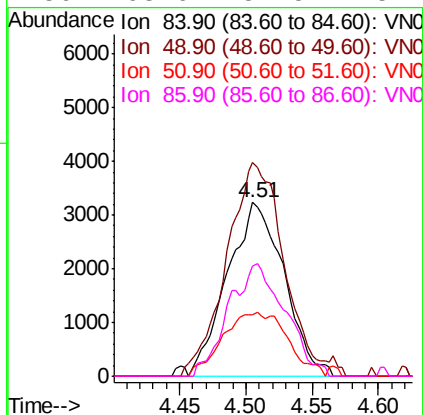
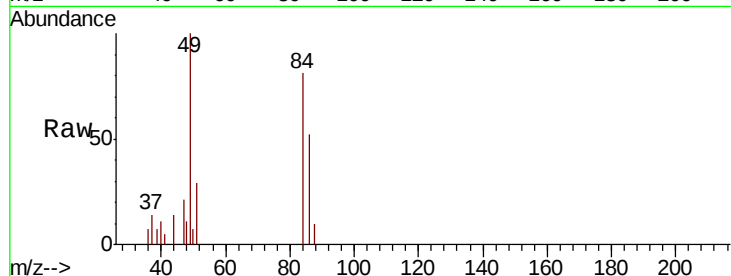




#20
Methvlene Chloride
Concen: 2.555 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN064125.D
Acq: 14 Oct 2020 20:31

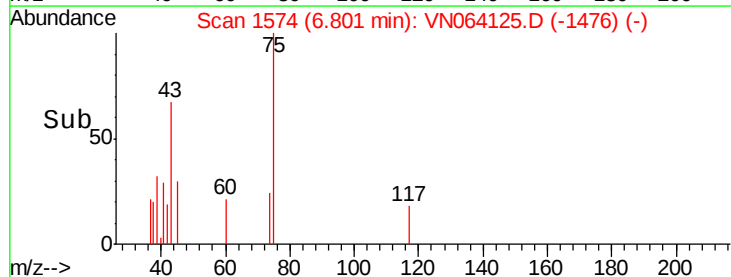
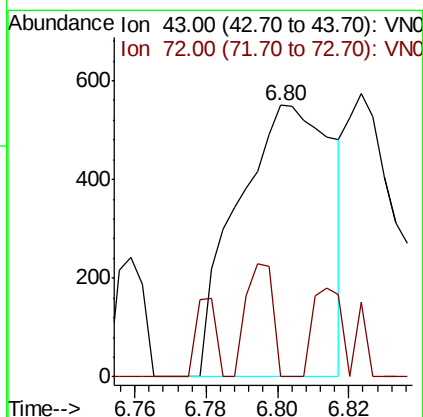
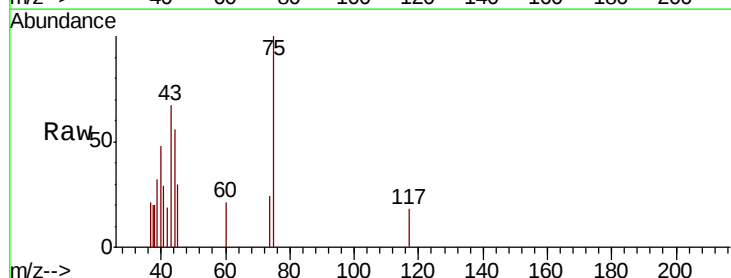
Instrument :
MSVOA_N
ClientSampleId :
TR-08-101320

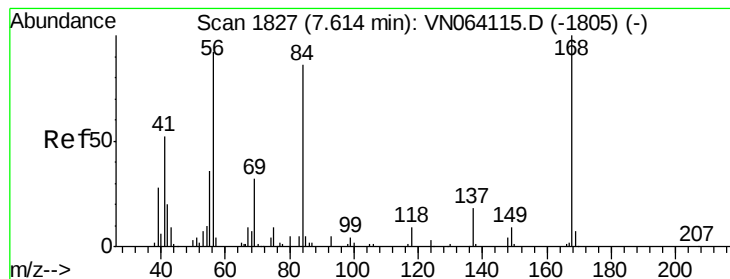
Tot Ion:	84	Resp:	9626
Ion	Ratio	Lower	Upper
84	100		
49	117.7	97.4	146.0
51	35.5	29.7	44.5
86	63.6	52.5	78.7



#25
2-Butanone
Concen: 0.540 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN064125.D
Acq: 14 Oct 2020 20:31

Tgt Ion:	43	Resp:	1011
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.2	33.2#





#31

Cyclohexane

Concen: 1.534 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN064125.D

Acq: 14 Oct 2020 20:31

Instrument :

MSVOA_N

ClientSampleId :

TR-08-101320

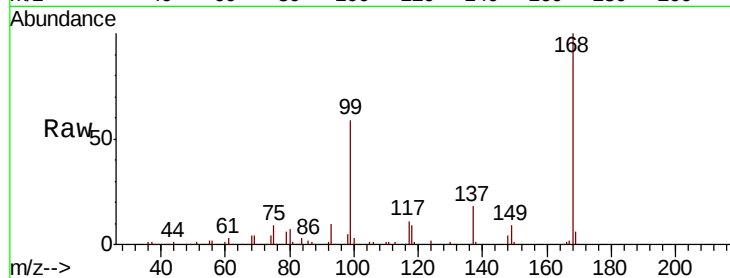
Tot Ion: 56 Resp: 6963

Ion Ratio Lower Upper

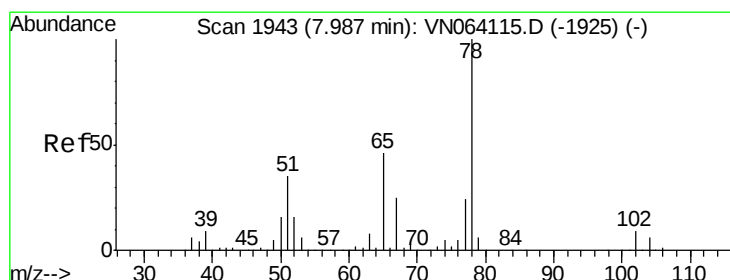
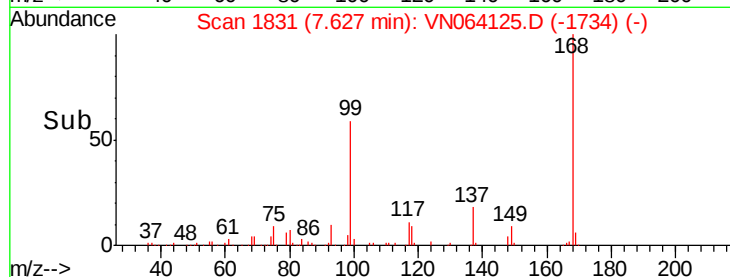
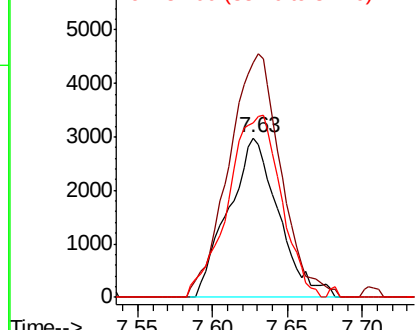
56 100

69 147.2 27.8 41.6#

84 109.8 73.2 109.8



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: 53.980 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN064125.D

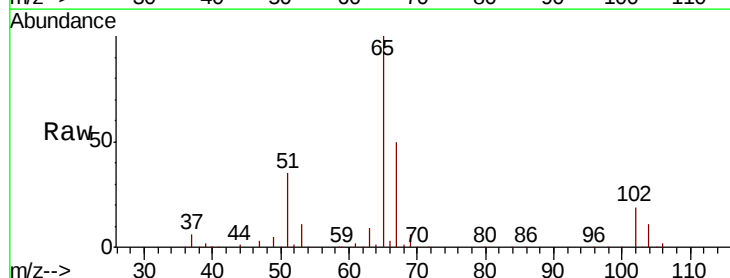
Acq: 14 Oct 2020 20:31

Tgt Ion: 65 Resp: 221570

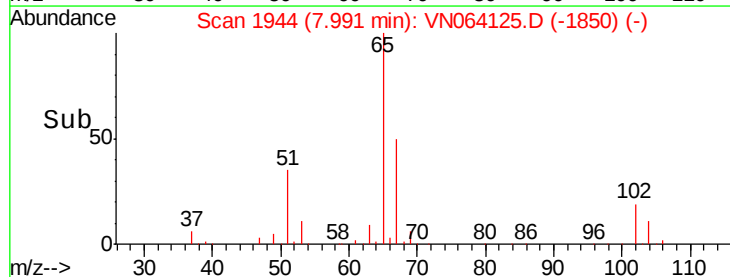
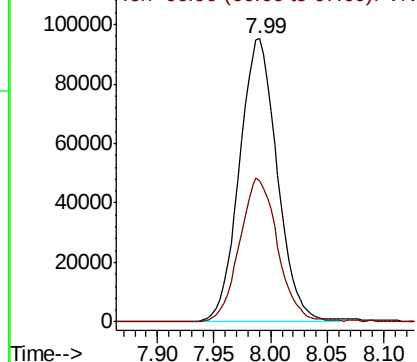
Ion Ratio Lower Upper

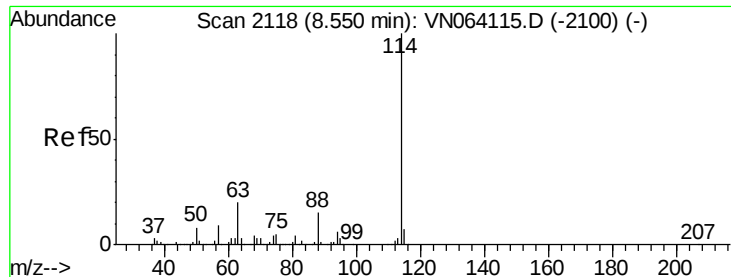
65 100

67 51.2 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

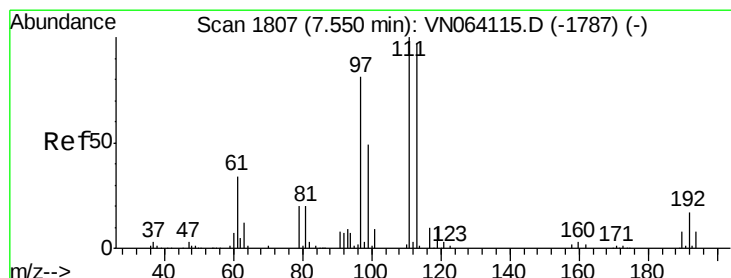
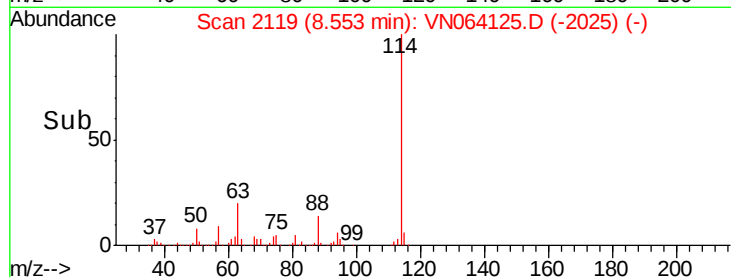
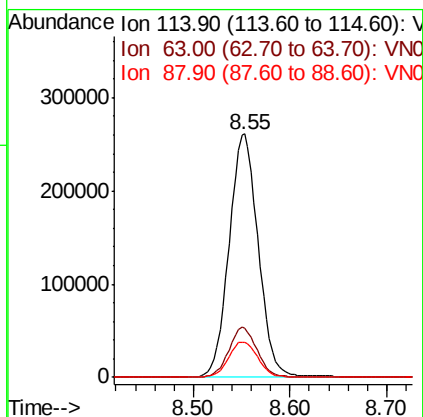
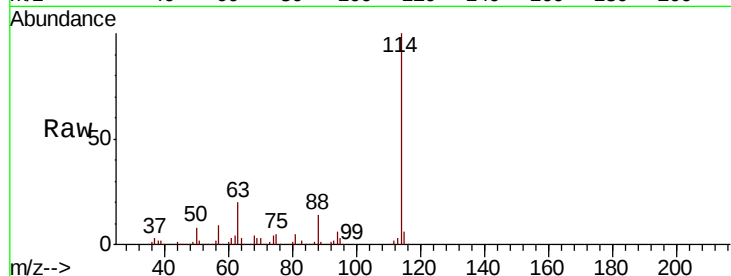




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN064125.D
Acq: 14 Oct 2020 20:31

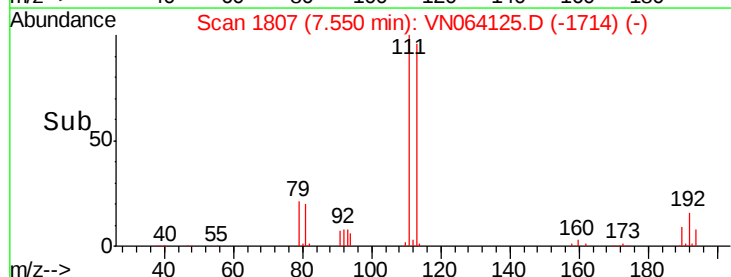
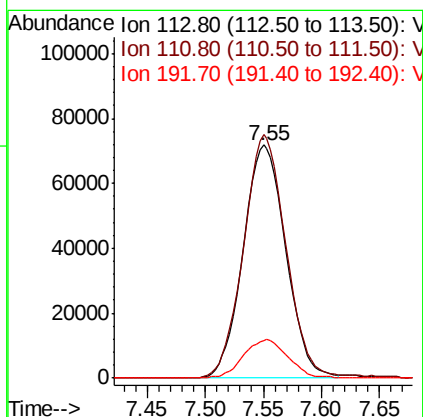
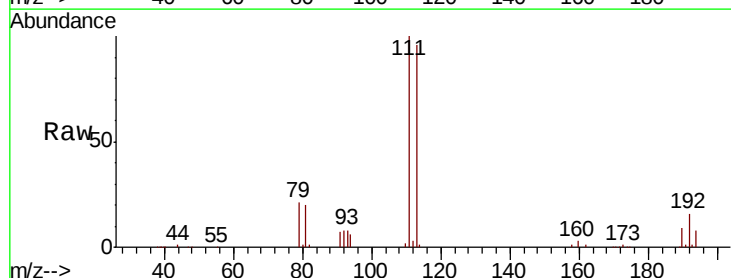
Instrument :
MSVOA_N
ClientSampleId :
TR-08-101320

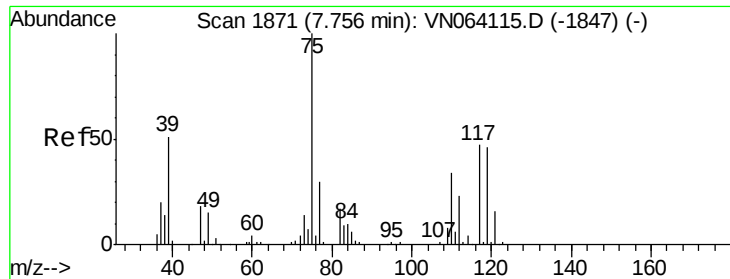
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	41.0
88	14.3	0.0	29.2



#35
Dibromofluoromethane
Concen: 48.674 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064125.D
Acq: 14 Oct 2020 20:31

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.9	122.9
192	17.0	14.3	21.5

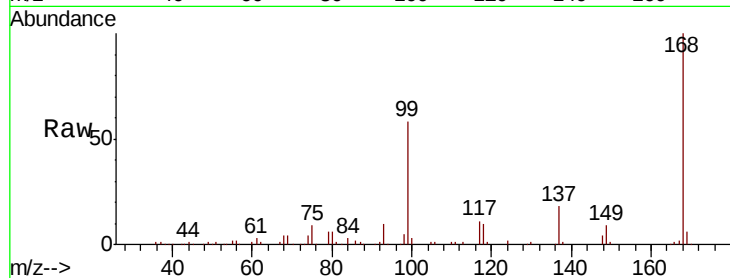




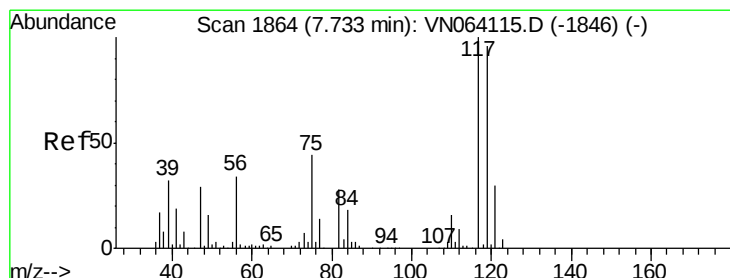
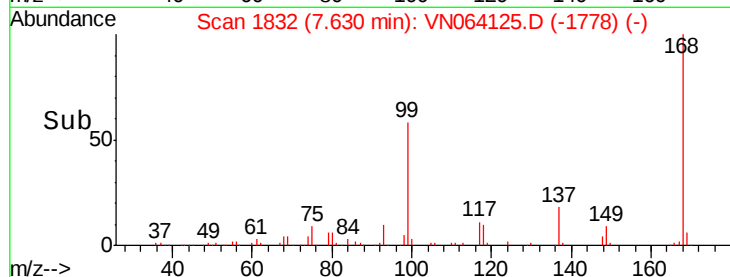
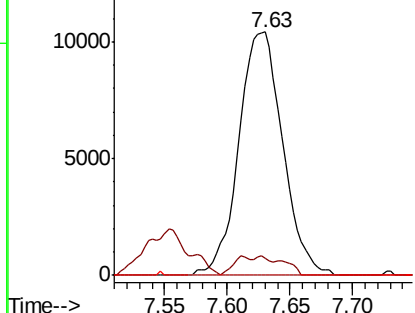
#36
 1,1-Dichloropropene
 Concen: 4.811 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN064125.D
 Acq: 14 Oct 2020 20:31

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-08-101320

Tot Ion	Ratio	Lower	Upper
75	100		
110	3.0	17.8	53.3#
77	0.0	24.9	37.3#

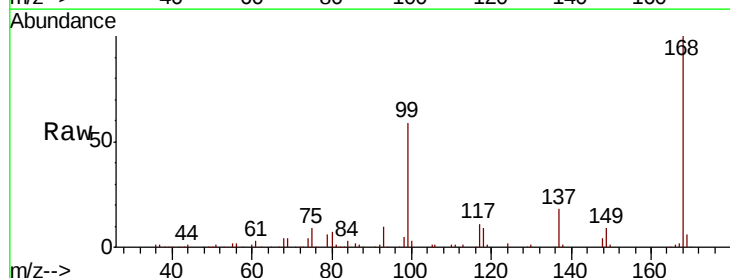


Abundance Ion 74.90 (74.60 to 75.60): VN064125.D (-1847) (-)
 Ion 109.90 (109.60 to 110.60): VN064125.D (-1847) (-)
 Ion 76.90 (76.60 to 77.60): VN064125.D (-1847) (-)

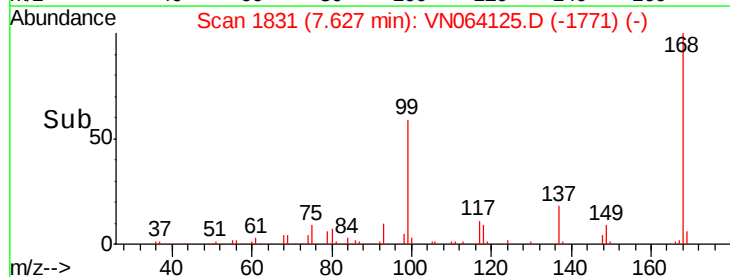
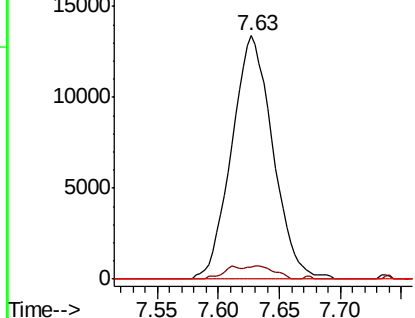


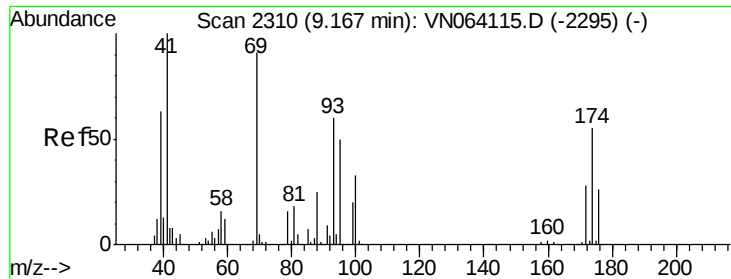
#38
 Carbon Tetrachloride
 Concen: 5.530 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064125.D
 Acq: 14 Oct 2020 20:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	77.0	115.4#
121	0.0	24.2	36.4#



Abundance Ion 116.80 (116.50 to 117.50): VN064125.D (-1771) (-)
 Ion 118.80 (118.50 to 119.50): VN064125.D (-1771) (-)
 Ion 120.80 (120.50 to 121.50): VN064125.D (-1771) (-)

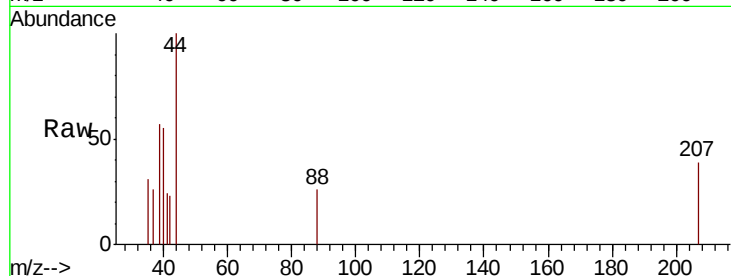




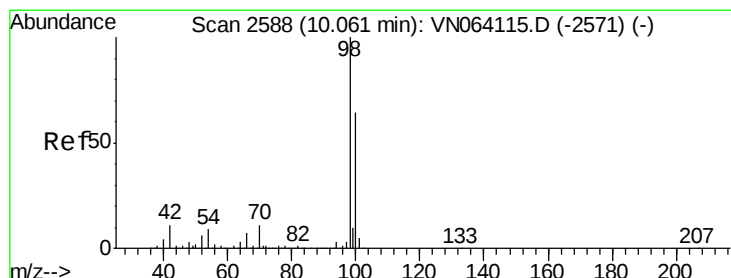
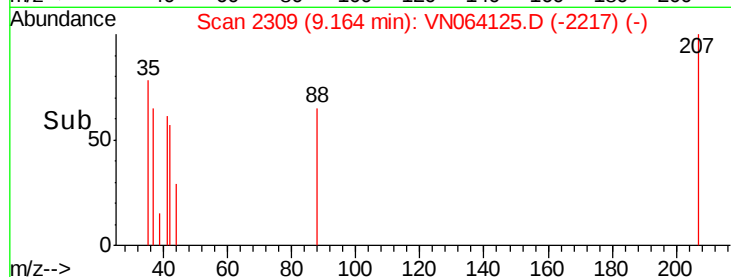
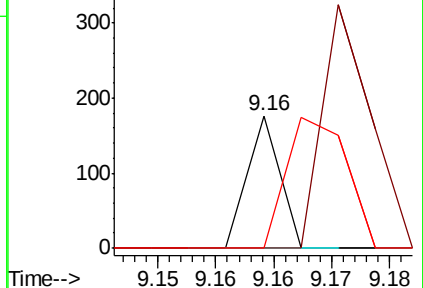
#49
1,4-Dioxane
Concen: 0.625 ug/l
RT: 9.16 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN064125.D
Acq: 14 Oct 2020 20:31

Instrument :
MSVOA_N
ClientSampled :
TR-08-101320

Tot Ion: 88 Resp: 34
Ion Ratio Lower Upper
88 100
43 273.5 27.2 40.8#
58 185.3 52.6 78.8#

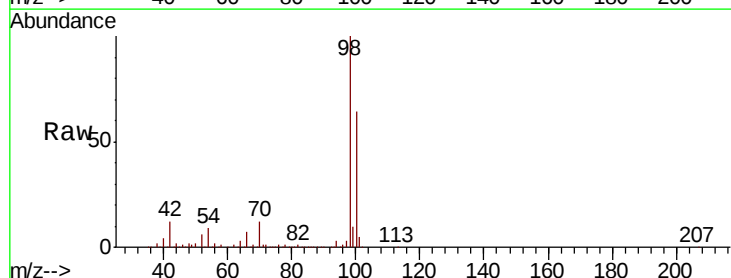


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

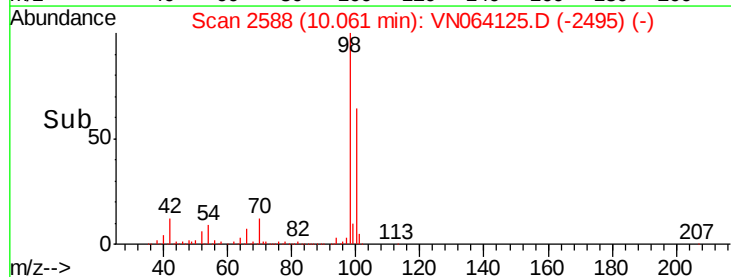
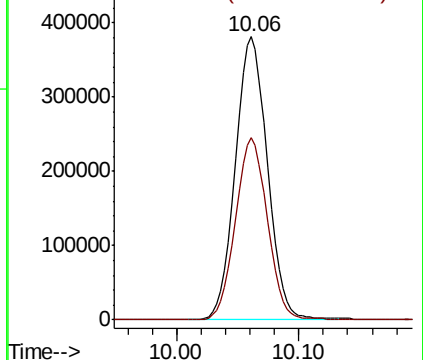


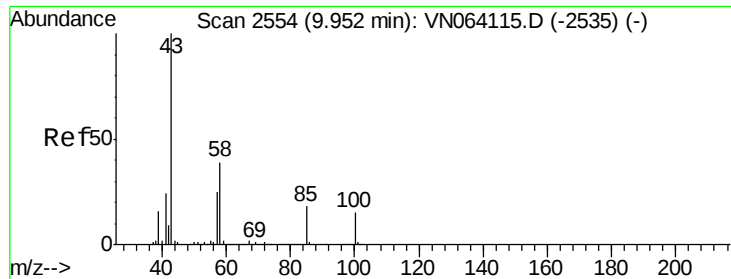
#50
Toluene-d8
Concen: 48.507 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064125.D
Acq: 14 Oct 2020 20:31

Tgt Ion: 98 Resp: 692326
Ion Ratio Lower Upper
98 100
100 64.2 50.8 76.2



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: 0.275 ug/l

RT: 9.96 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN064125.D

Acq: 14 Oct 2020 20:31

Instrument :

MSVOA_N

ClientSampleId :

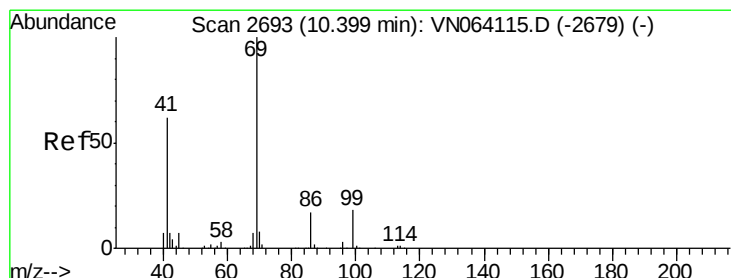
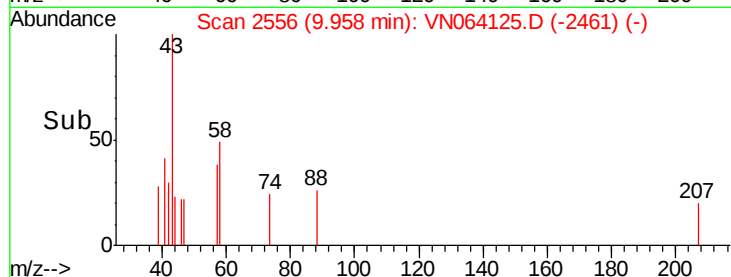
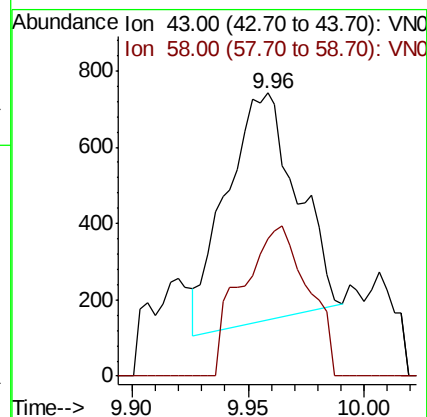
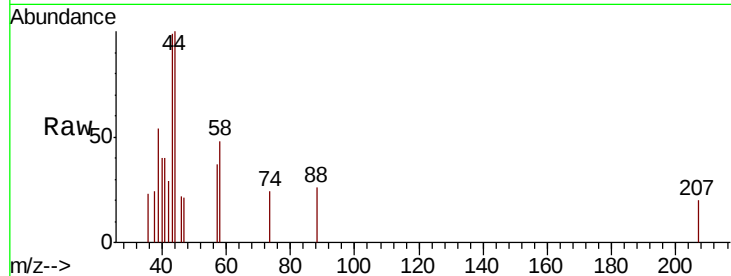
TR-08-101320

Tot Ion: 43 Resp: 1264

Ion Ratio Lower Upper

43 100

58 62.0 31.2 46.8#



#56

Ethyl methacrylate

Concen: 2.310 ug/l

RT: 10.21 min Scan# 2635

Delta R.T. -0.19 min

Lab File: VN064125.D

Acq: 14 Oct 2020 20:31

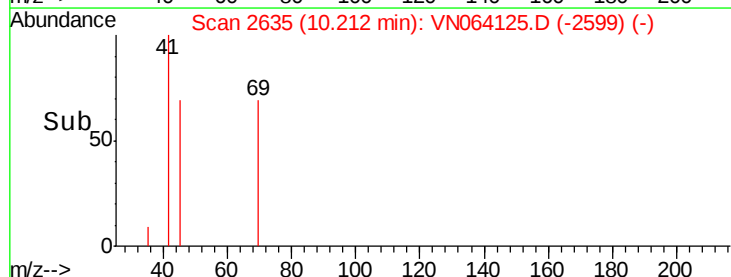
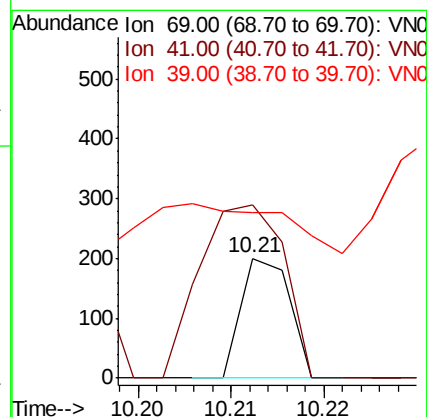
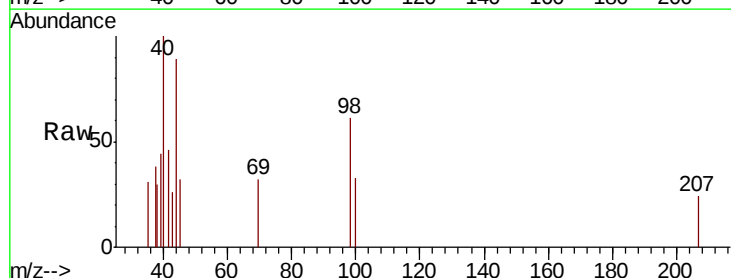
Tgt Ion: 69 Resp: 73

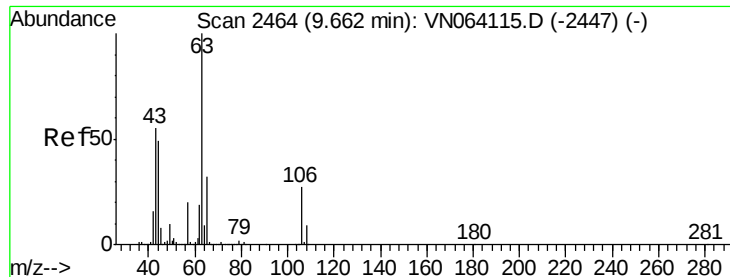
Ion Ratio Lower Upper

69 100

41 252.1 49.3 73.9#

39 123.3 32.7 49.1#





#58

2-Chloroethyl Vinyl ether

Concen: 12.229 ug/l

RT: 9.46 min Scan# 2402

Delta R.T. -0.20 min

Lab File: VN064125.D

Acq: 14 Oct 2020 20:31

Instrument :

MSVOA_N

ClientSampleId :

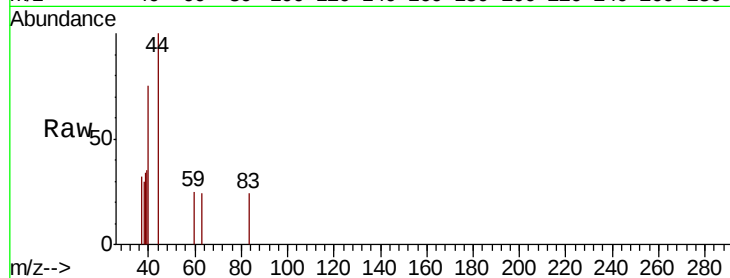
TR-08-101320

Tot Ion: 63 Resp: 30

Ion Ratio Lower Upper

63 100

106 0.0 21.8 32.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.46

150

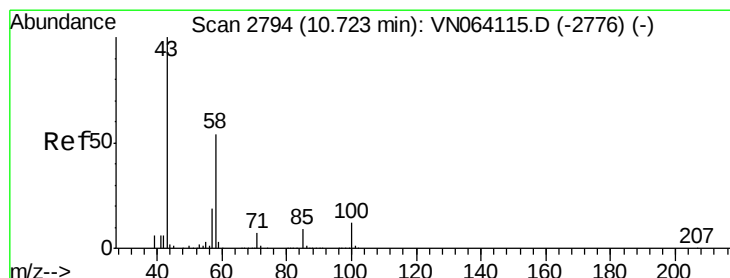
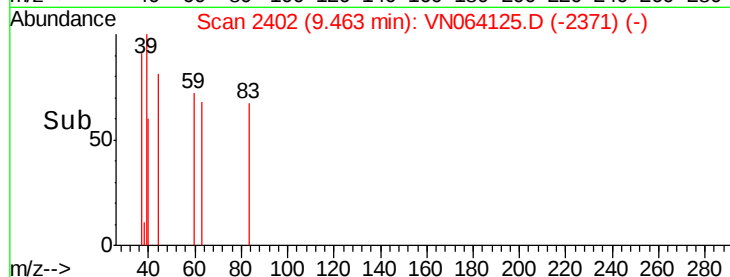
100

50

0

9.46 9.46 9.47

Time-->



#59

2-Hexanone

Concen: 6.908 ug/l

RT: 10.78 min Scan# 2811

Delta R.T. 0.06 min

Lab File: VN064125.D

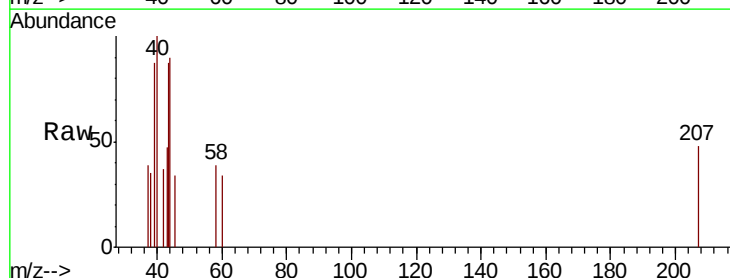
Acq: 14 Oct 2020 20:31

Tgt Ion: 43 Resp: 257

Ion Ratio Lower Upper

43 100

58 38.1 27.2 81.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.78

600

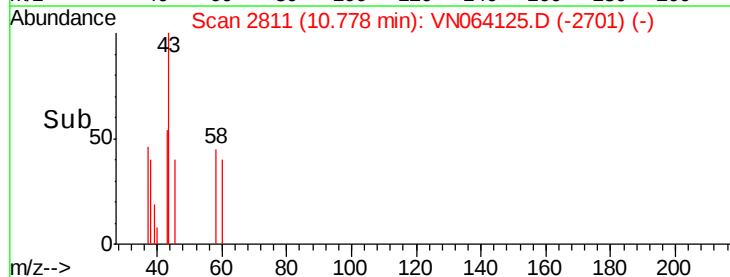
400

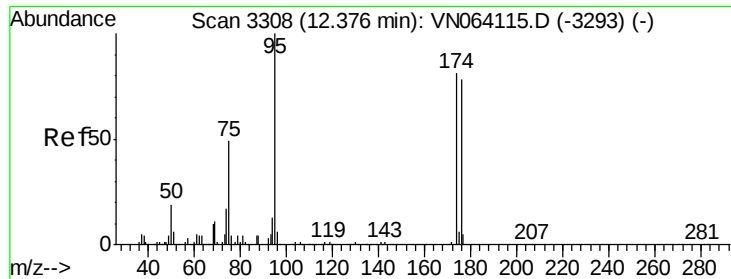
200

0

10.77 10.78 10.79

Time-->

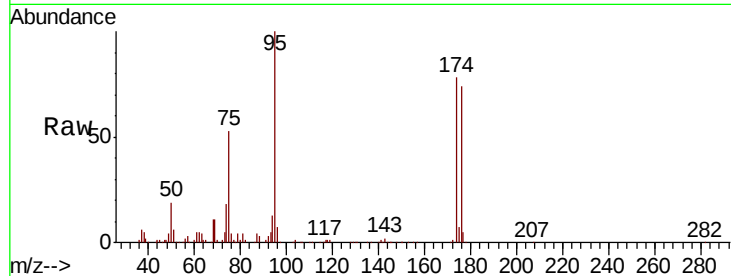




#62
4-Bromofluorobenzene
Concen: 49.226 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064125.D
Acq: 14 Oct 2020 20:31

Instrument :
MSVOA_N
ClientSampleId :
TR-08-101320

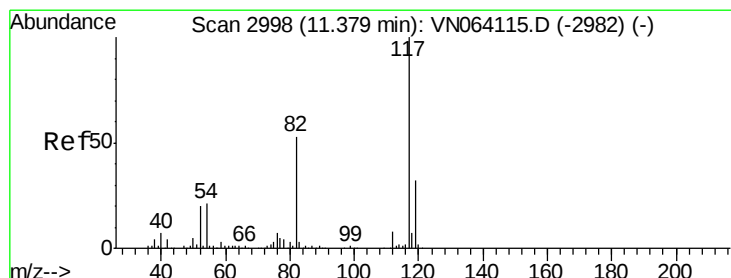
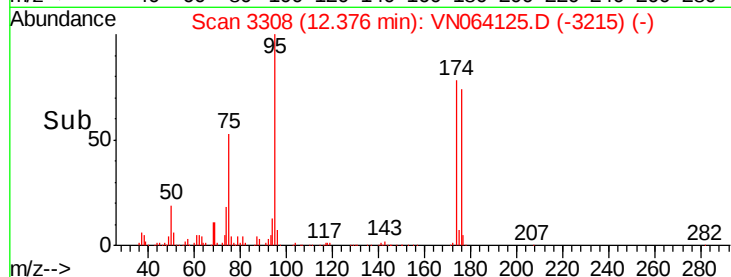
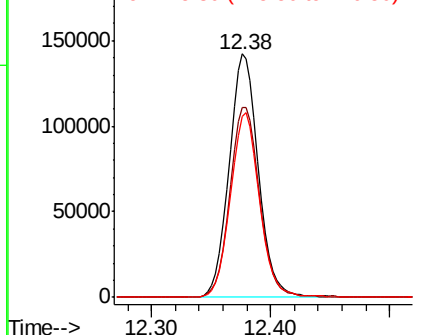
Tot Ion	95	Resp	241496
Ion Ratio	Lower	Upper	
95	100		
174	79.5	0.0	164.8
176	75.8	0.0	157.8



Abundance Ion 94.90 (94.60 to 95.60): VN064125.D (-3293) (-)

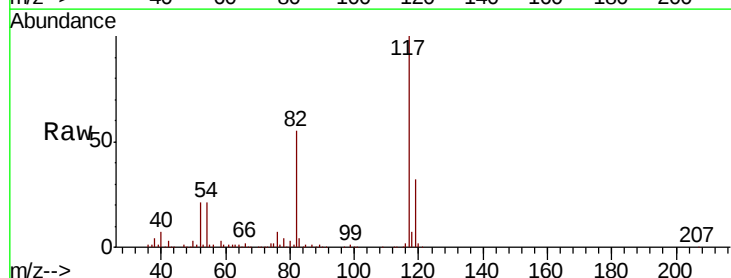
Ion 173.80 (173.50 to 174.50): VN064125.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN064125.D (-3293) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064125.D
Acq: 14 Oct 2020 20:31

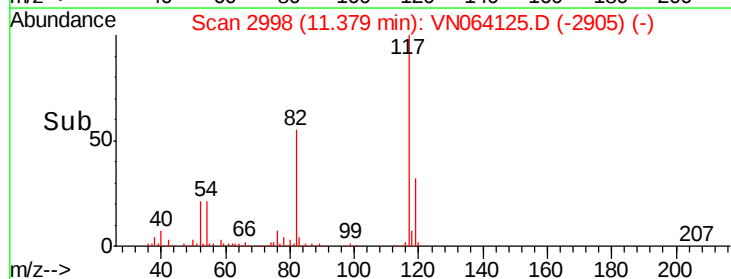
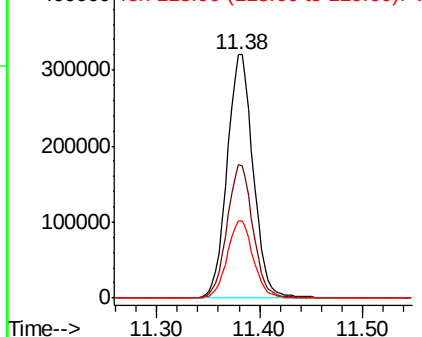
Tgt Ion	117	Resp	565517
Ion Ratio	Lower	Upper	
117	100		
82	54.8	42.6	63.8
119	31.9	25.5	38.3

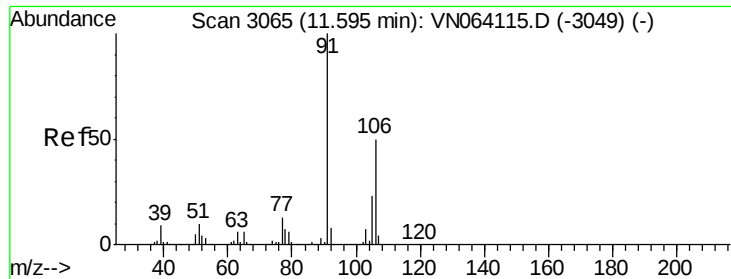


Abundance Ion 116.90 (116.60 to 117.60): VN064125.D (-2982) (-)

Ion 82.00 (81.70 to 82.70): VN064125.D (-2982) (-)

Ion 118.90 (118.60 to 119.60): VN064125.D (-2982) (-)

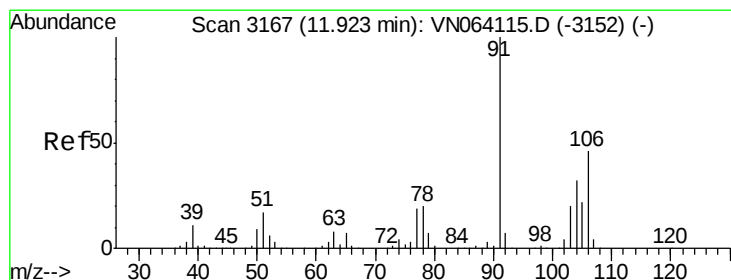
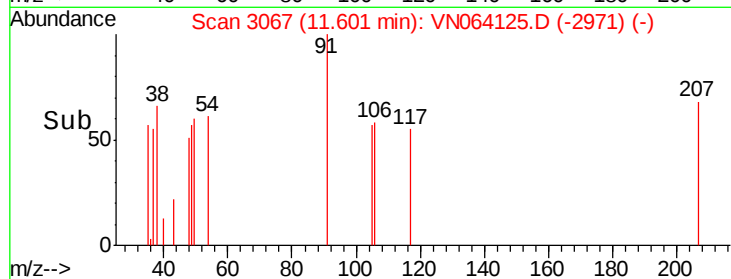
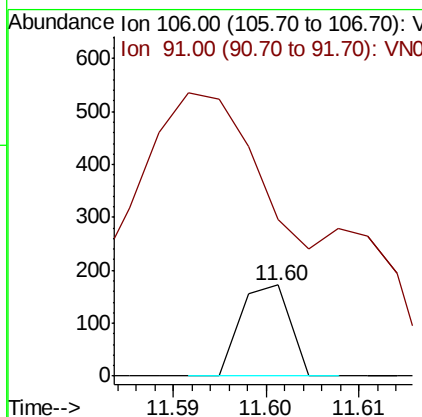
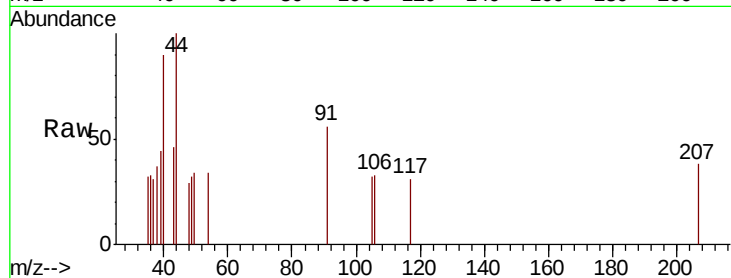




#68
m/p-Xylenes
Concen: 2.199 ug/l
RT: 11.60 min Scan# 3067
Delta R.T. 0.01 min
Lab File: VN064125.D
Acq: 14 Oct 2020 20:31

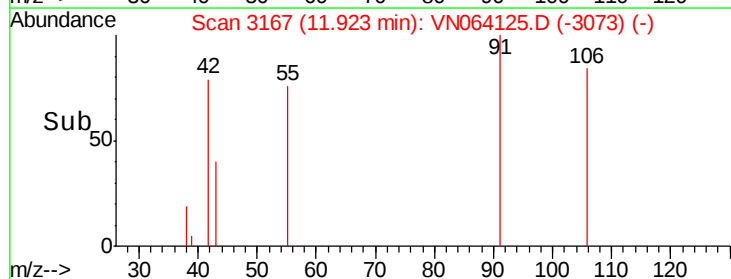
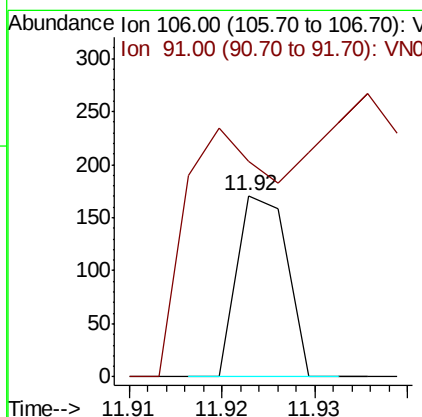
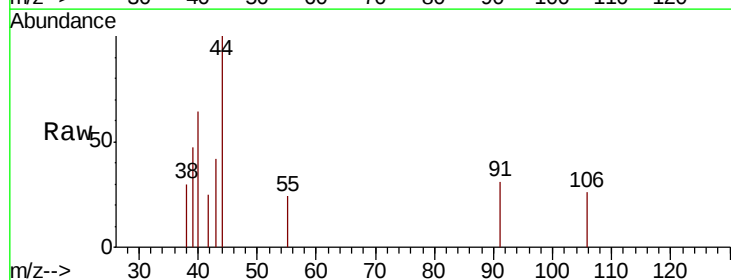
Instrument :
MSVOA_N
ClientSampleId :
TR-08-101320

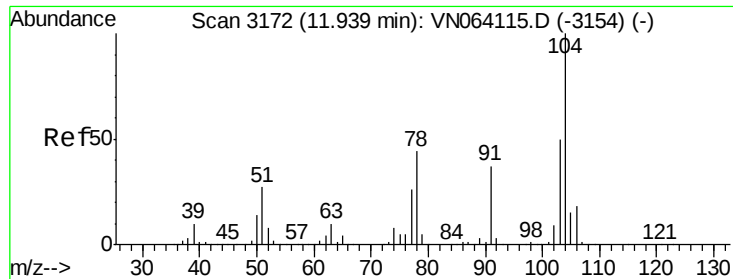
Tot Ion:106 Resp: 63
Ion Ratio Lower Upper
106 100
91 1200.0 162.1 243.1#



#69
o-Xylene
Concen: 1.591 ug/l
RT: 11.92 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN064125.D
Acq: 14 Oct 2020 20:31

Tgt Ion:106 Resp: 64
Ion Ratio Lower Upper
106 100
91 245.3 107.6 322.8





#70

Stvrene

Concen: 2.041 ug/l

RT: 11.95 min Scan# 3177

Delta R.T. 0.02 min

Lab File: VN064125.D

Acq: 14 Oct 2020 20:31

Instrument :

MSVOA_N

ClientSampleId :

TR-08-101320

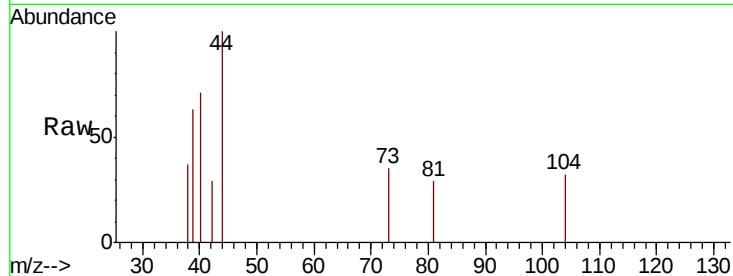
Tot Ion:104 Resp: 64

Ion Ratio Lower Upper

104 100

78 0.0 39.7 59.5#

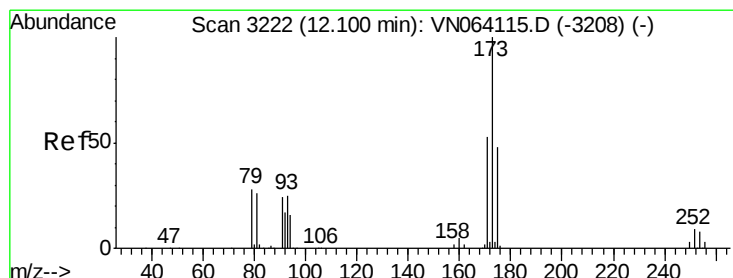
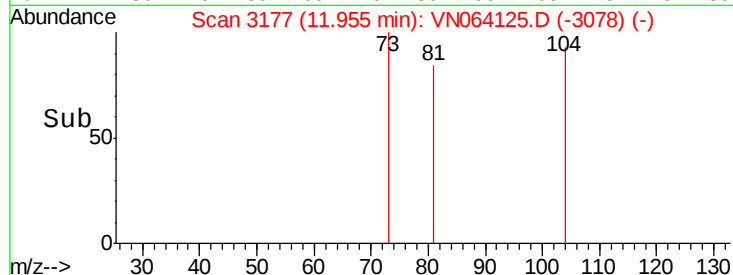
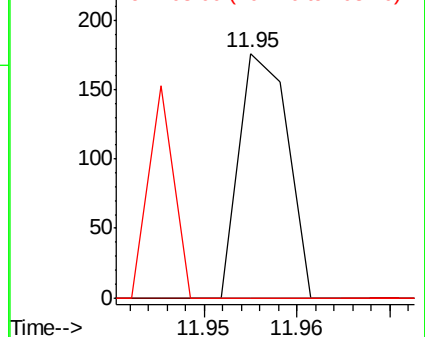
103 45.3 44.2 66.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 2.461 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN064125.D

Acq: 14 Oct 2020 20:31

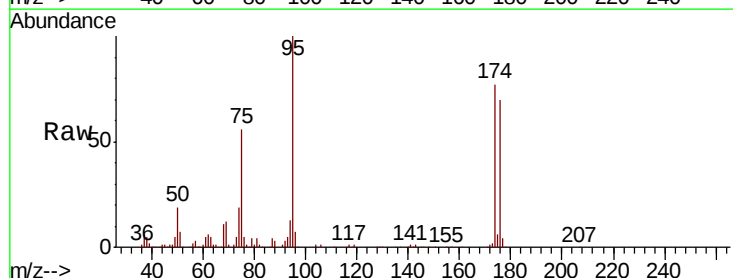
Tgt Ion:173 Resp: 902

Ion Ratio Lower Upper

173 100

175 1387.6 23.4 70.2#

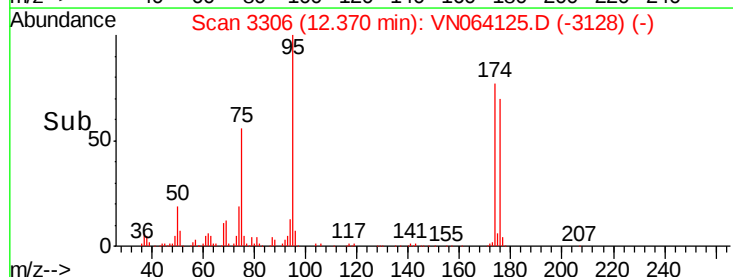
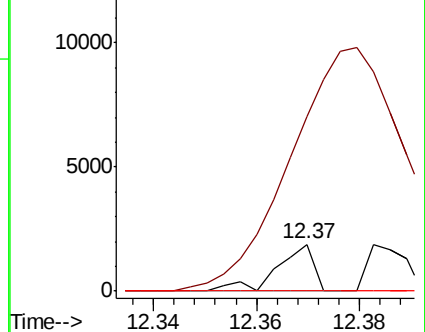
254 0.0 0.1 0.1#

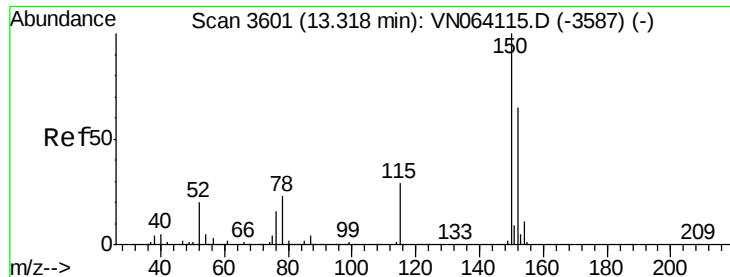


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VN064125.D

Acq: 14 Oct 2020 20:31

Instrument :

MSVOA_N

ClientSampleId :

TR-08-101320

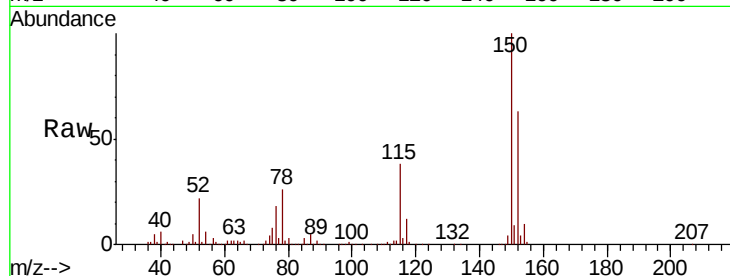
Tot Ion:152 Resp: 209044

Ion Ratio Lower Upper

152 100

115 59.5 29.3 87.8

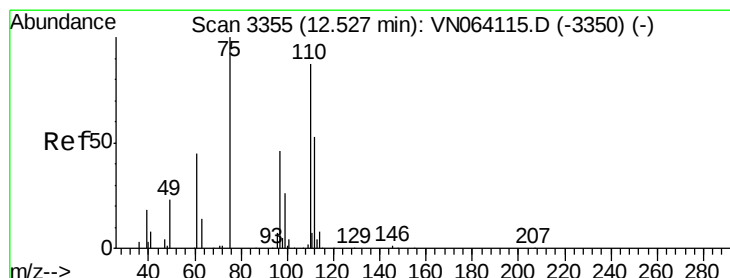
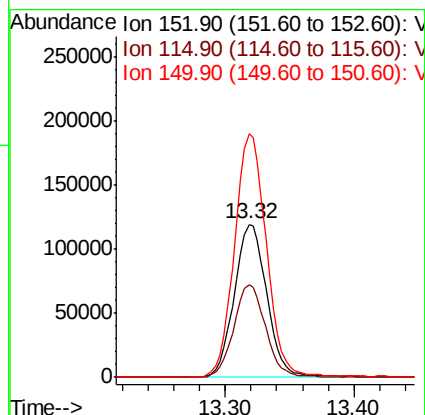
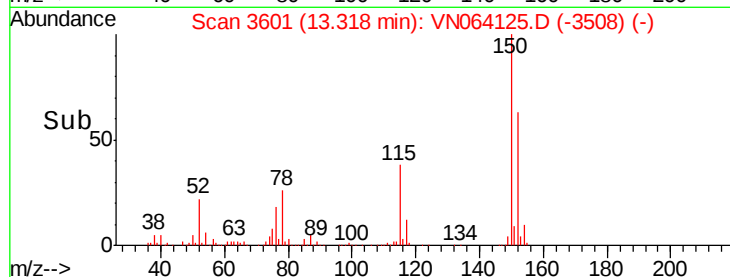
150 155.7 0.0 346.0



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



#76

1,2,3-Trichloropropane

Concen: 26.153 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064125.D

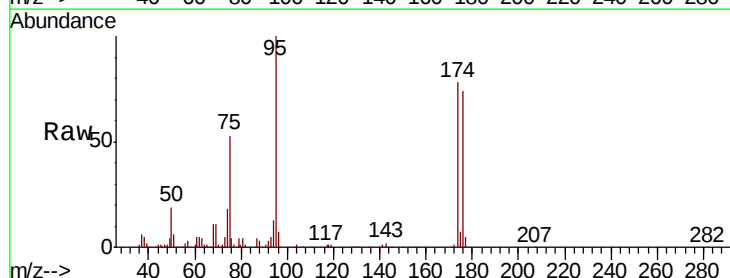
Acq: 14 Oct 2020 20:31

Tgt Ion: 75 Resp: 128260

Ion Ratio Lower Upper

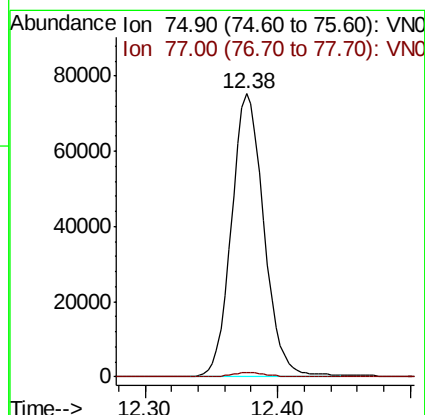
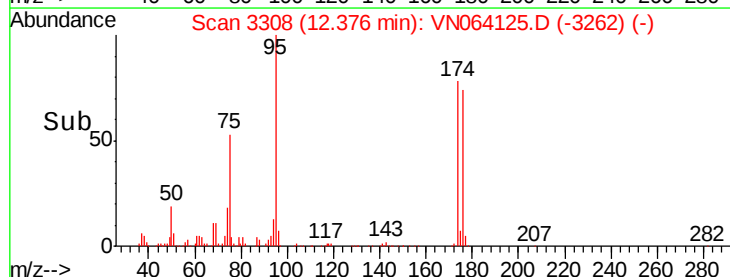
75 100

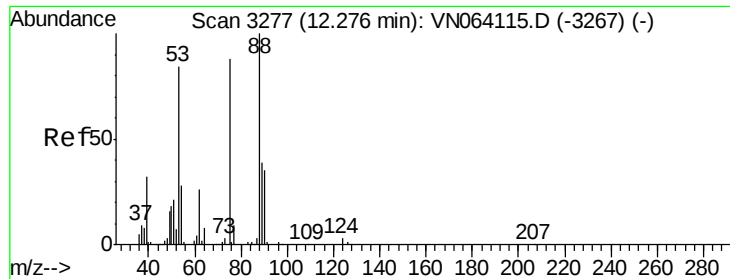
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 79.901 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064125.D

Acq: 14 Oct 2020 20:31

Instrument :

MSVOA_N

ClientSampleId :

TR-08-101320

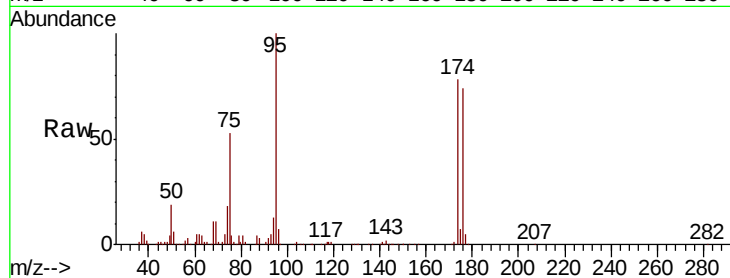
Tot Ion: 75 Resp: 128260

Ion Ratio Lower Upper

75 100

53 0.1 75.7 113.5#

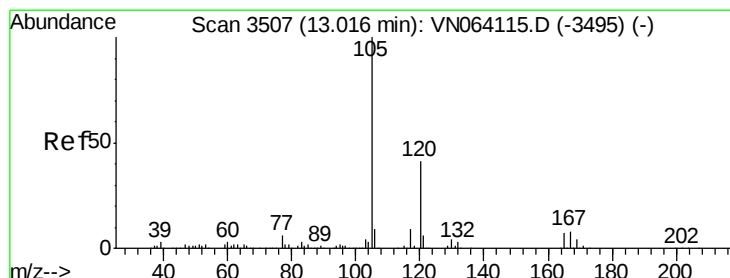
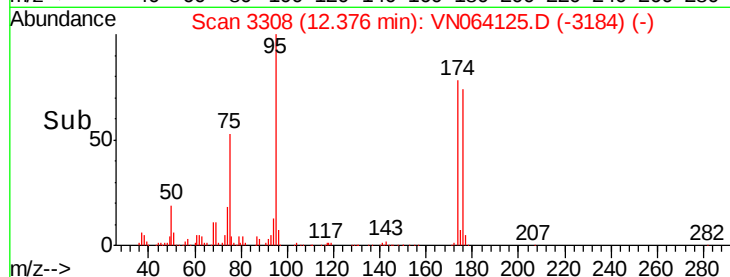
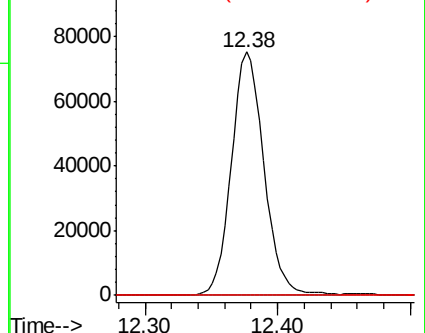
89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VN064125.D (-3184) (-)

Ion 53.00 (52.70 to 53.70): VN064125.D (-3184) (-)

Ion 88.90 (88.60 to 89.60): VN064125.D (-3184) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.219 ug/l

RT: 13.02 min Scan# 3508

Delta R.T. 0.00 min

Lab File: VN064125.D

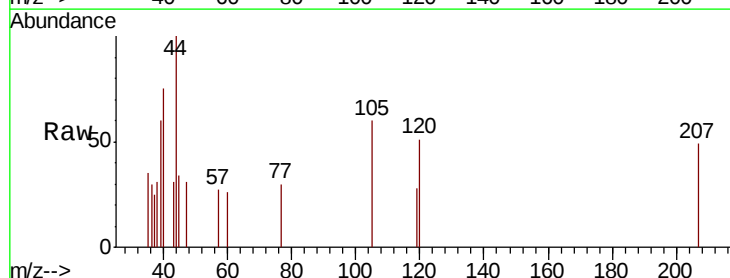
Acq: 14 Oct 2020 20:31

Tgt Ion: 105 Resp: 440

Ion Ratio Lower Upper

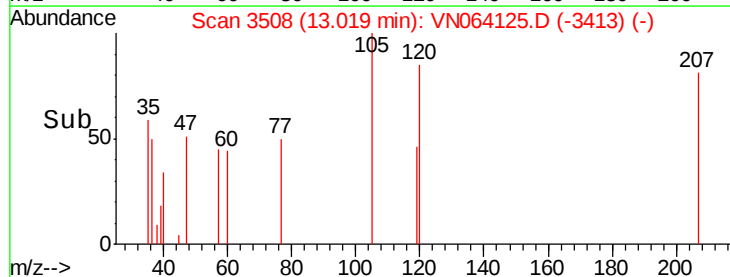
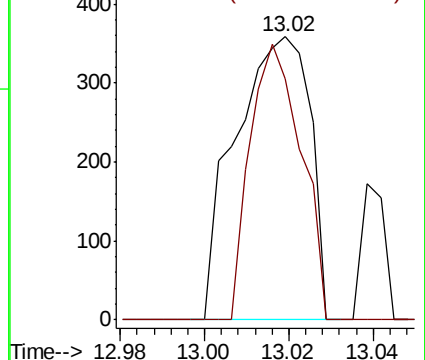
105 100

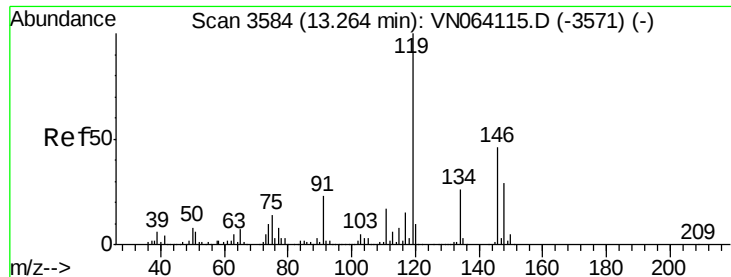
120 66.8 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): VN064125.D (-3413) (-)

Ion 120.00 (119.70 to 120.70): VN064125.D (-3413) (-)

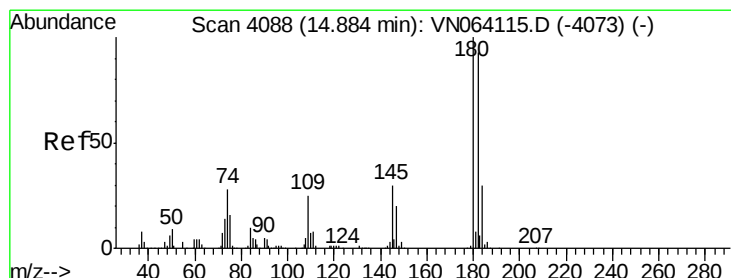
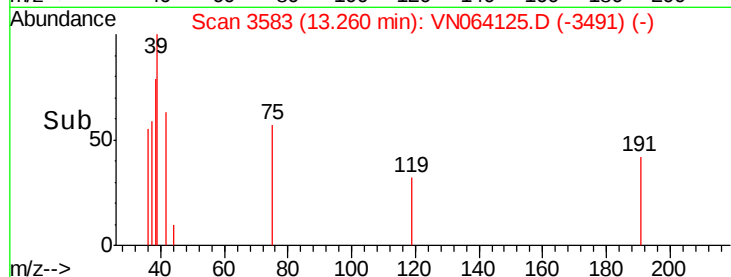
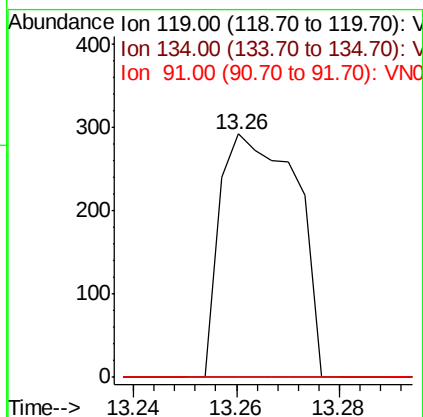
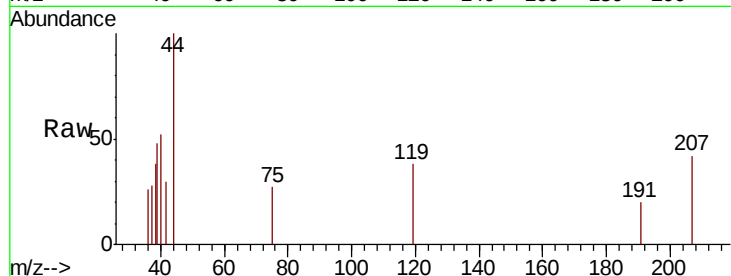




#86
 p-Isopropyltoluene
 Concen: 0.686 ug/l
 RT: 13.26 min Scan# 3583
 Delta R.T. -0.00 min
 Lab File: VN064125.D
 Acq: 14 Oct 2020 20:31

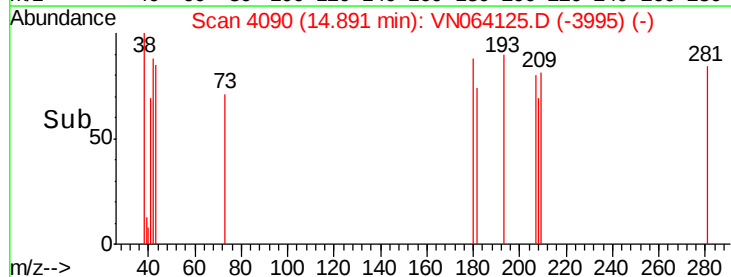
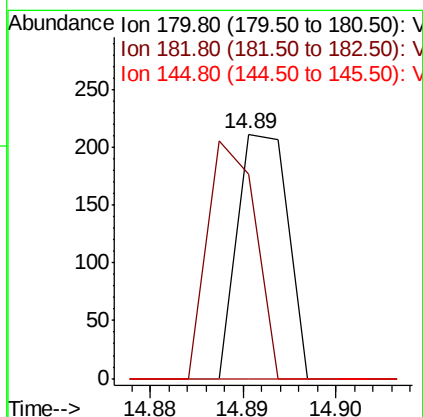
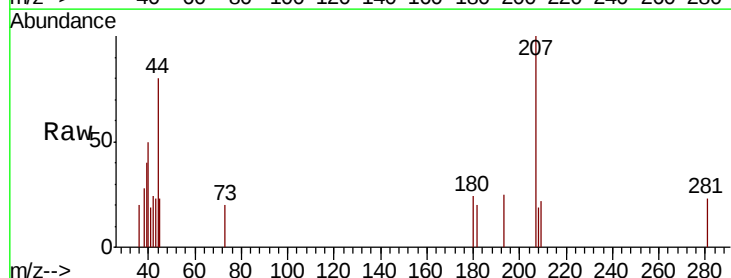
Instrument :
 MSVOA_N
 ClientSampleId :
 TR-08-101320

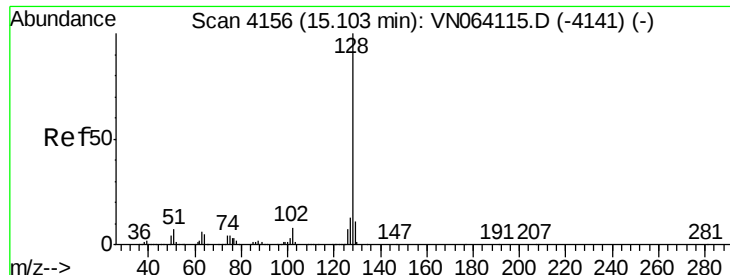
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.2	39.5#
91	0.0	12.0	36.1#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.203 ug/l
 RT: 14.89 min Scan# 4090
 Delta R.T. 0.01 min
 Lab File: VN064125.D
 Acq: 14 Oct 2020 20:31

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.4	45.8	137.4
145	0.0	15.4	46.1#

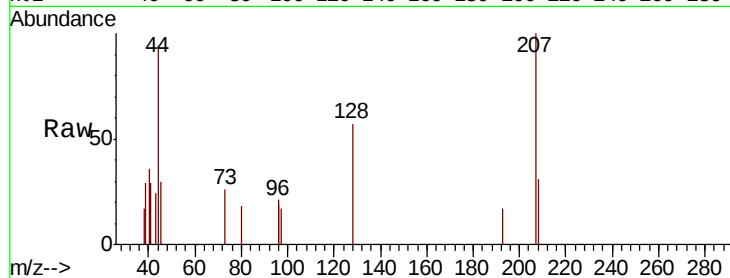




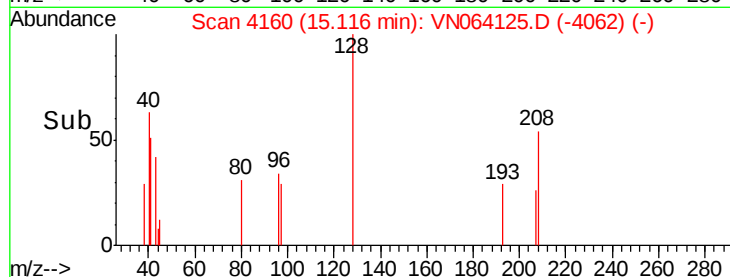
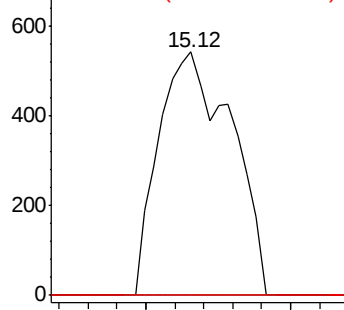
#95
Naphthalene
Concen: 3.883 ug/l
RT: 15.12 min Scan# 4160
Delta R.T. 0.01 min
Lab File: VN064125.D
Acq: 14 Oct 2020 20:31

Instrument :
MSVOA_N
ClientSampleId :
TR-08-101320

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.5	12.7#



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-->