

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110220\
 Data File : VN064419.D
 Acq On : 2 Nov 2020 17:14
 Operator : JC/MD
 Sample : L4576-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PW-1

Quant Time: Nov 02 17:32:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 02 15:45:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	38442	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	207820	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	178277	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	96793	30.84	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.80%
60) 4-Bromofluorobenzene	12.38	95	78407	26.02	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.73%
63) Toluene-d8	10.06	98	243075	30.58	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.93%

Target Compounds

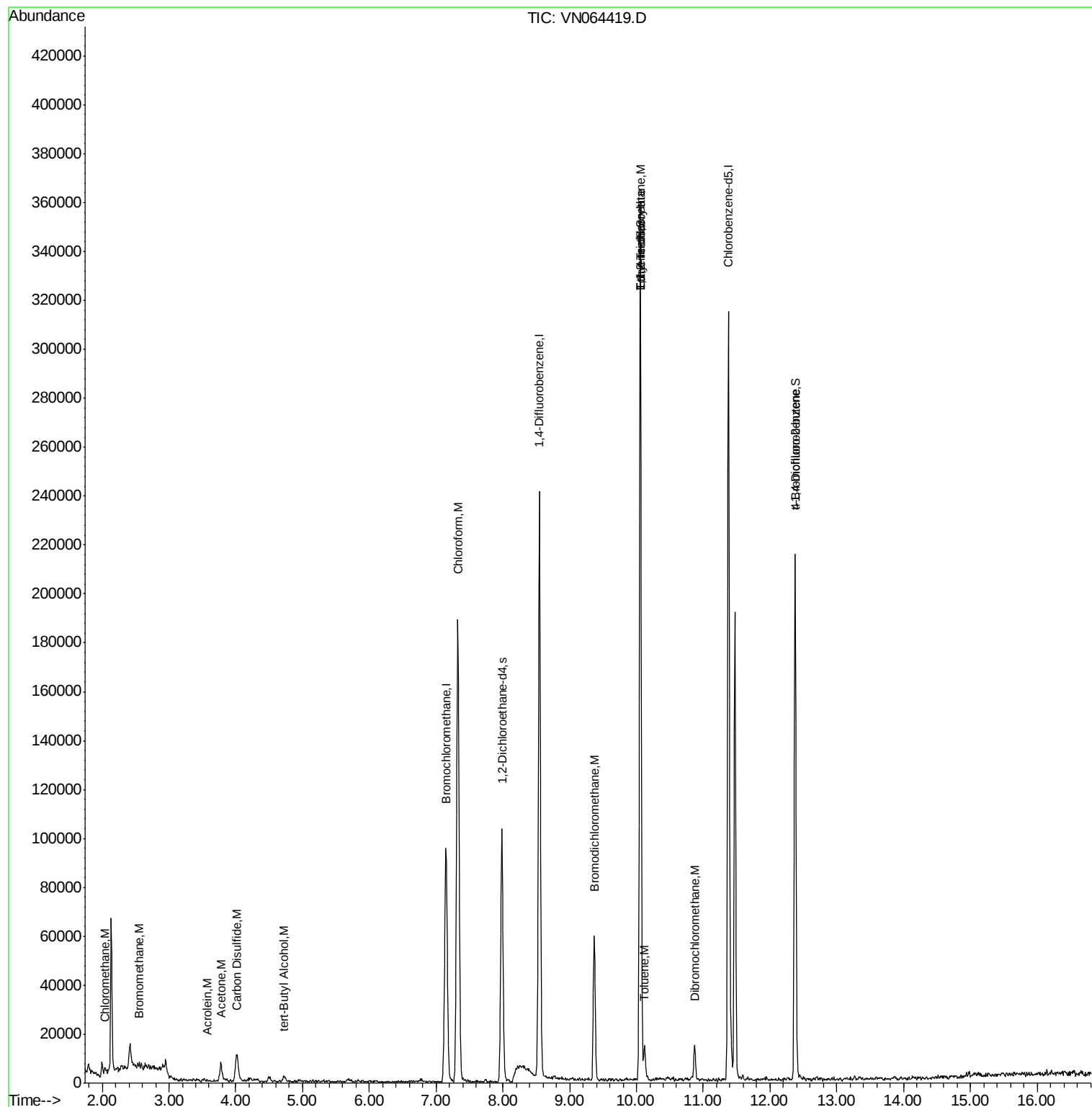
					Ovalue	
3) Chloromethane	2.04	50	2696	1.056	ug/l	# 84
5) Bromomethane	2.54	94	366	0.213	ug/l	# 79
13) Acrolein	3.57	56	107	0.509	ug/l	97
15) Acetone	3.78	58	3049	8.987	ug/l	69
16) Carbon Disulfide	4.00	76	1507	0.255	ug/l	# 76
23) tert-Butyl Alcohol	4.72	59	212	0.570	ug/l	# 100
25) Chloroform	7.32	83	201759	42.786	ug/l	98
41) Bromodichloromethane	9.37	83	40522	10.891	ug/l	100
50) 1,1,2-Trichloroethane	10.07	97	8487	3.588	ug/l	# 1
51) Ethyl methacrylate	10.06	69	1036	0.305	ug/l	# 47
53) Dibromochloromethane	10.87	129	7510	2.585	ug/l	98
62) Toluene	10.12	91	8566	0.858	ug/l	94
77) t-1,4-Dichloro-2-butene	12.37	75	41313	39.063	ug/l	# 7

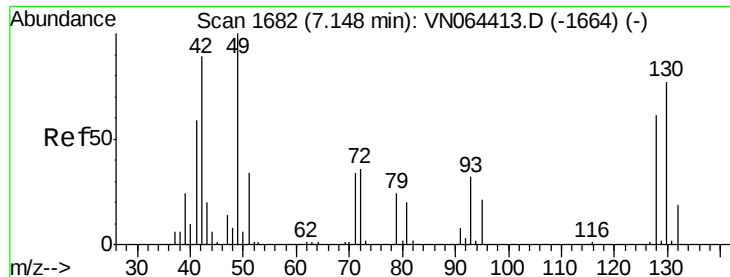
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_Y
ClientSampleId :
PW-1

Quant Time: Nov 02 17:32:54 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N110220W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Nov 02 15:45:48 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VN064419.D

Acq: 2 Nov 2020 17:14

Instrument :

MSVOA_Y

ClientSampleId :

PW-1

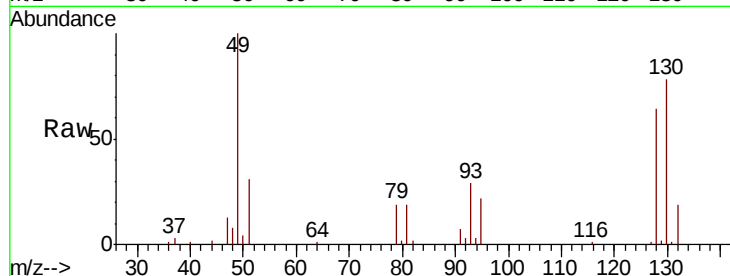
Tot Ion:128 Resp: 38442

Ion Ratio Lower Upper

128 100

49 161.0 0.0 423.5

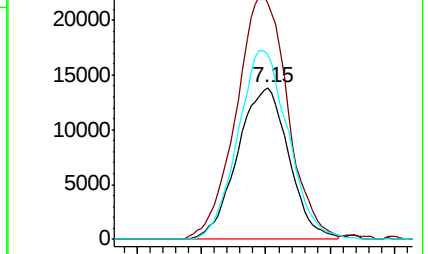
130 122.3 0.0 325.0



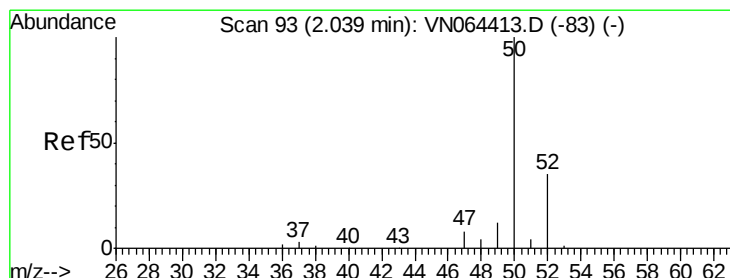
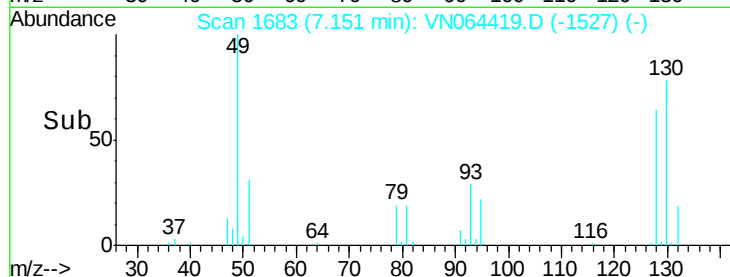
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



Time-->



#3

Chloromethane

Concen: 1.056 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.00 min

Lab File: VN064419.D

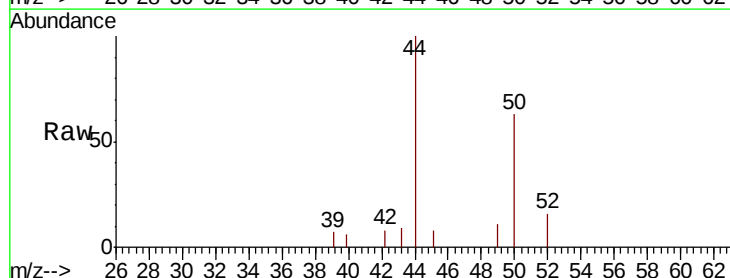
Acq: 2 Nov 2020 17:14

Tgt Ion: 50 Resp: 2696

Ion Ratio Lower Upper

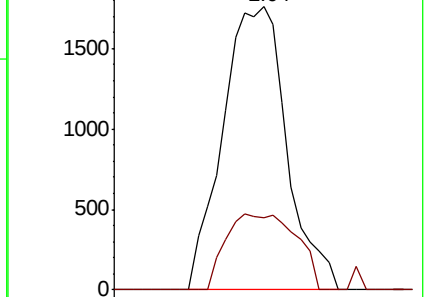
50 100

52 25.3 27.7 41.5#

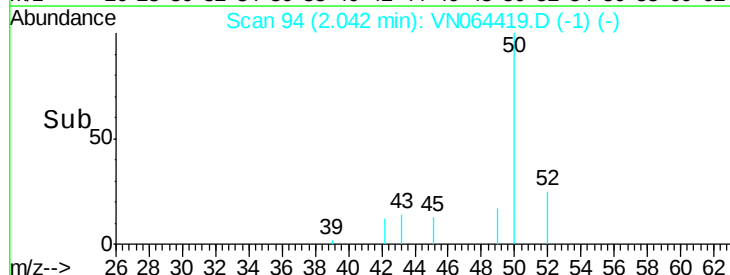


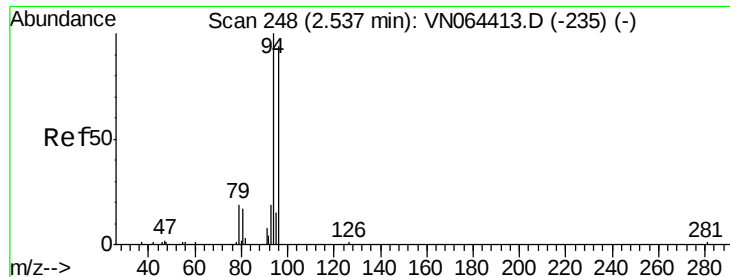
Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



Time-->





#5

Bromomethane

Concen: 0.213 ug/l

RT: 2.54 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN064419.D

Acq: 2 Nov 2020 17:14

Instrument :

MSVOA_Y

ClientSampled :

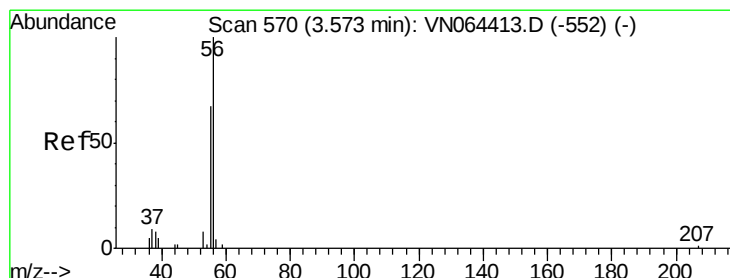
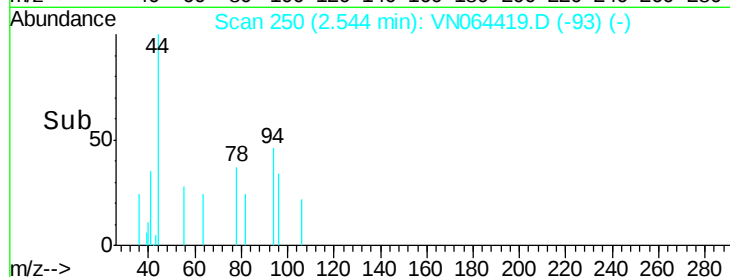
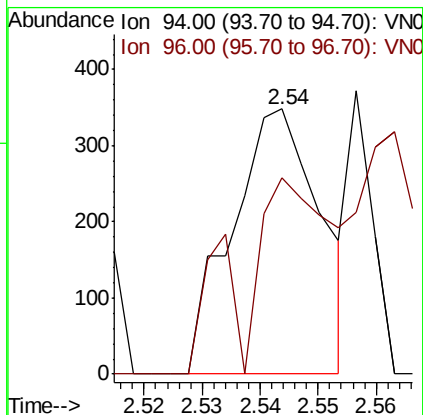
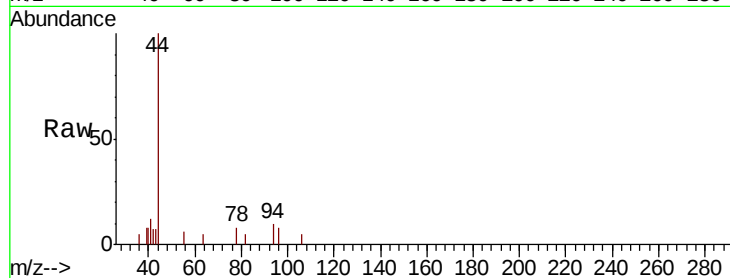
PW-1

Tot Ion: 94 Resp: 366

Ion Ratio Lower Upper

94 100

96 74.1 75.2 112.8#



#13

Acrolein

Concen: 0.509 ug/l

RT: 3.57 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN064419.D

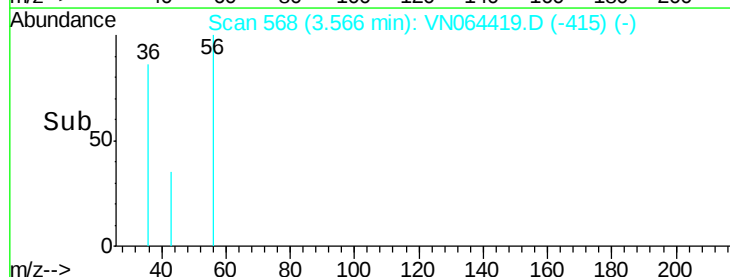
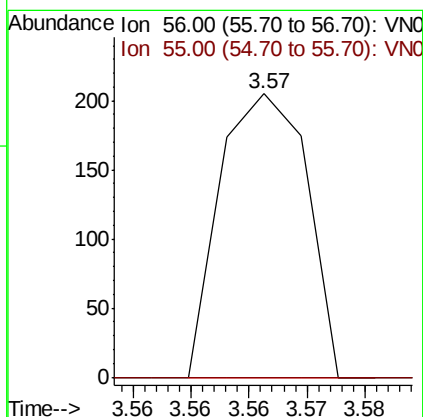
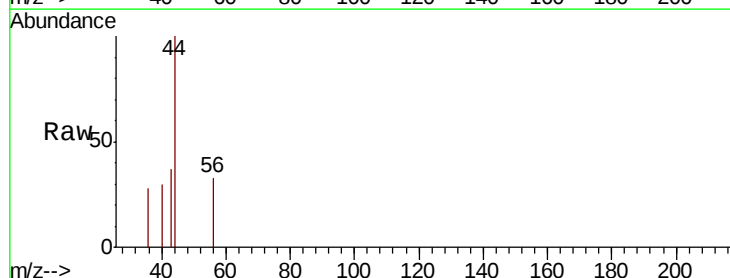
Acq: 2 Nov 2020 17:14

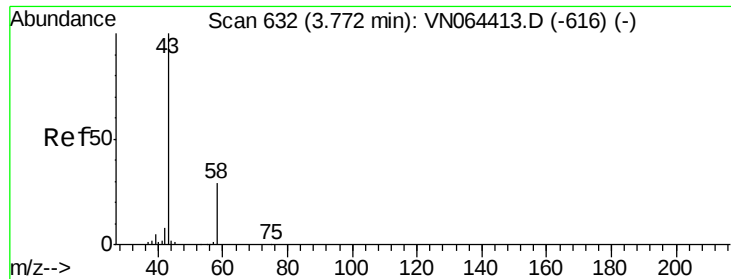
Tgt Ion: 56 Resp: 107

Ion Ratio Lower Upper

56 100

55 68.2 52.5 78.7





#15

Acetone

Concen: 8.987 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064419.D

Acq: 2 Nov 2020 17:14

Instrument :

MSVOA_Y

ClientSampleId :

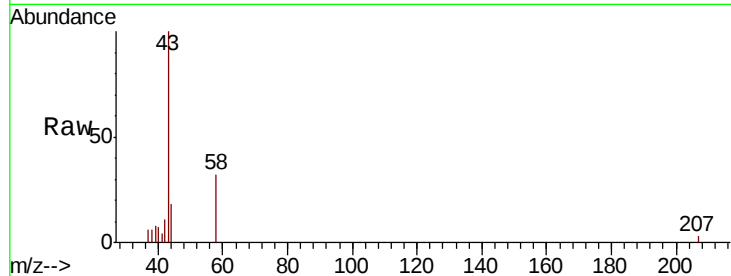
PW-1

Tot Ion: 58 Resp: 3049

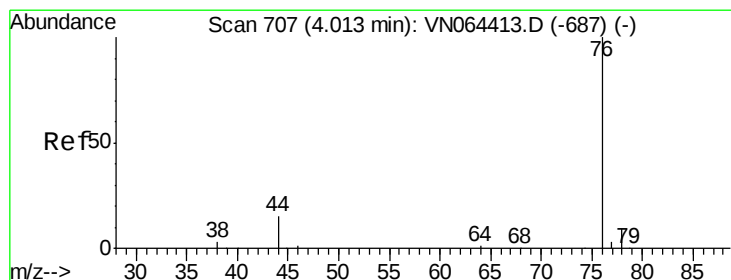
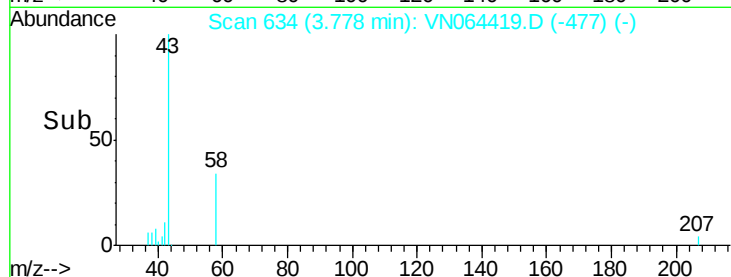
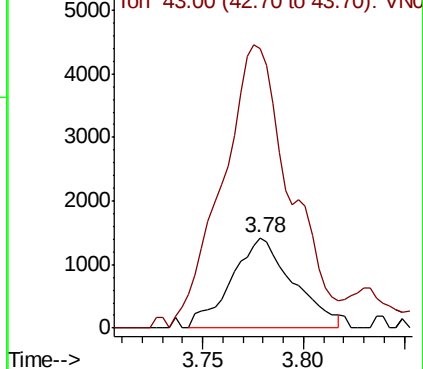
Ion Ratio Lower Upper

58 100

43 277.7 276.1 414.1



Abundance Ion 58.00 (57.70 to 58.70): VN064419.D (-616) (-)



#16

Carbon Disulfide

Concen: 0.255 ug/l

RT: 4.00 min Scan# 704

Delta R.T. -0.01 min

Lab File: VN064419.D

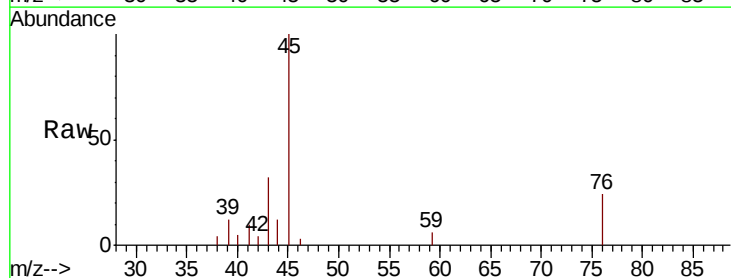
Acq: 2 Nov 2020 17:14

Tgt Ion: 76 Resp: 1507

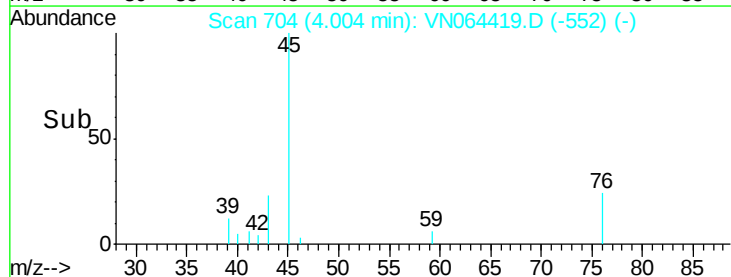
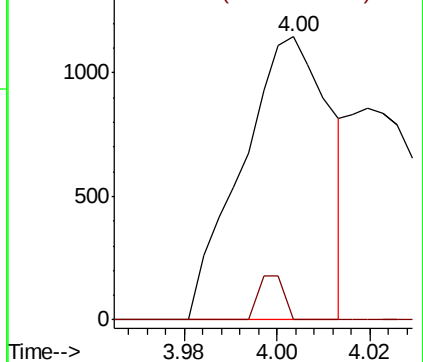
Ion Ratio Lower Upper

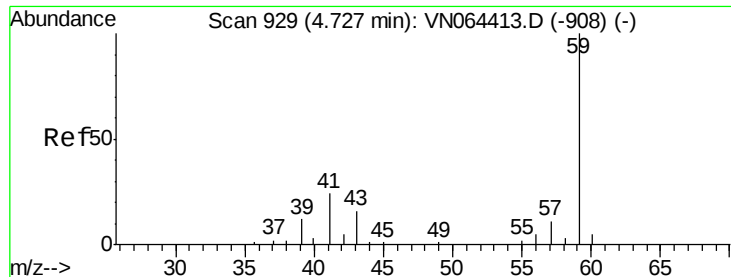
76 100

78 0.0 7.0 10.6#



Abundance Ion 76.00 (75.70 to 76.70): VN064419.D (-687) (-)

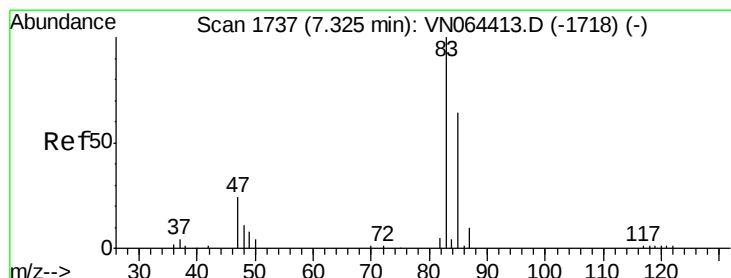
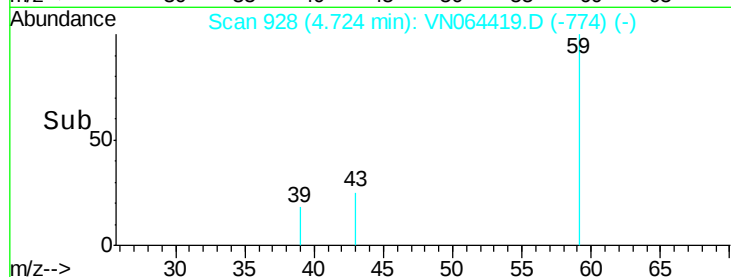
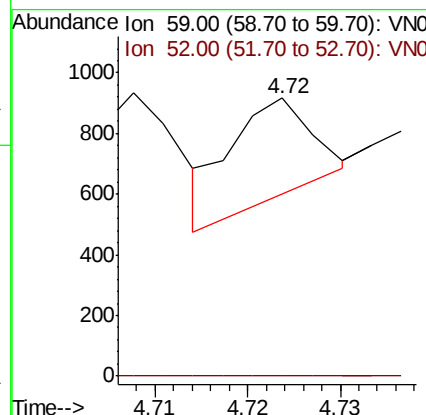
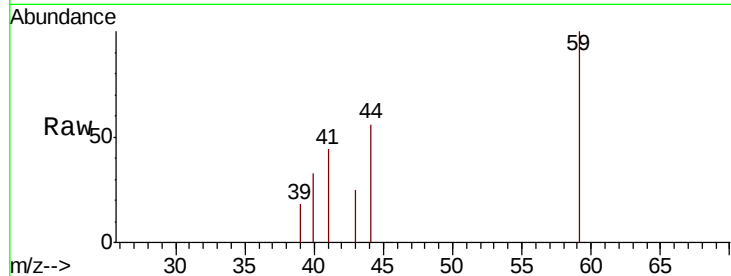




#23
 tert-Butyl Alcohol
 Concen: 0.570 ug/l
 RT: 4.72 min Scan# 928
 Delta R.T. -0.00 min
 Lab File: VN064419.D
 Acq: 2 Nov 2020 17:14

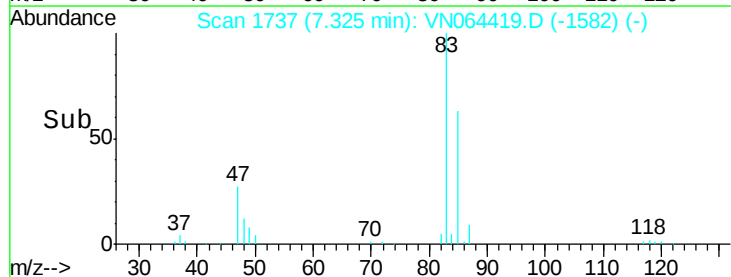
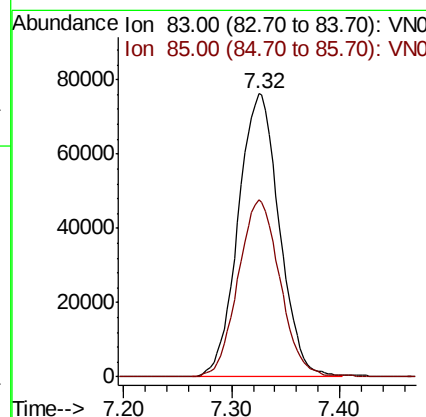
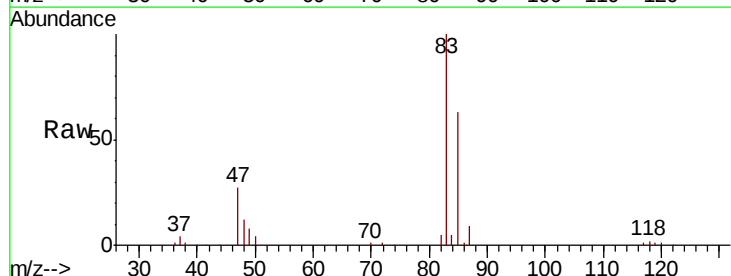
Instrument :
 MSVOA_Y
 ClientSampled :
 PW-1

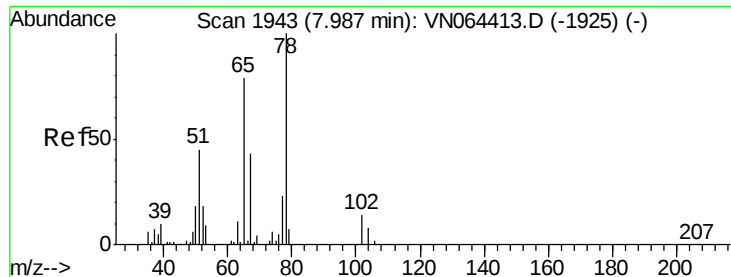
Tot Ion: 59 Resp: 212
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



#25
 Chloroform
 Concen: 42.786 ug/l
 RT: 7.32 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VN064419.D
 Acq: 2 Nov 2020 17:14

Tgt Ion: 83 Resp: 201759
 Ion Ratio Lower Upper
 83 100
 85 62.5 51.0 76.4





#27

1,2-Dichloroethane-d4

Concen: 30.842 ug/l

RT: 7.98 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VN064419.D

Acq: 2 Nov 2020 17:14

Instrument :

MSVOA_Y

ClientSampleId :

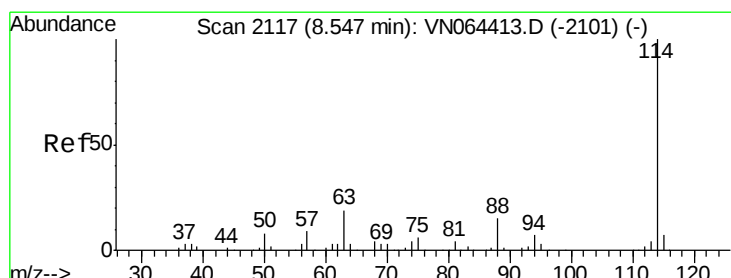
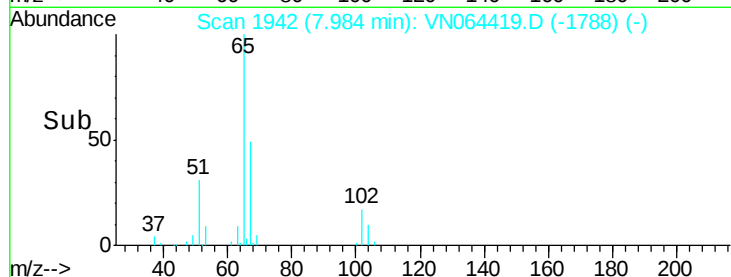
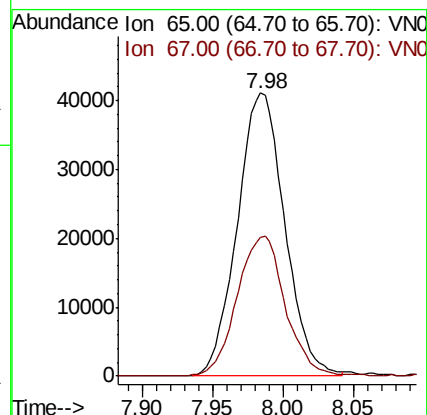
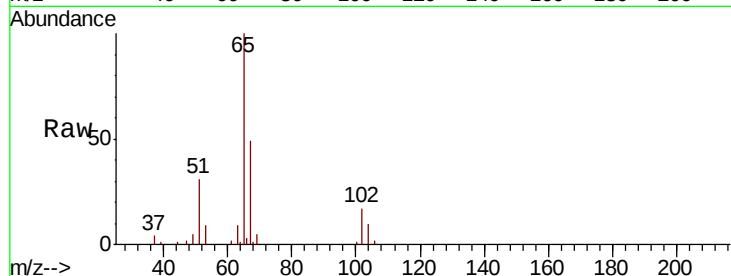
PW-1

Tot Ion: 65 Resp: 96793

Ion Ratio Lower Upper

65 100

67 50.0 40.6 61.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2117

Delta R.T. -0.00 min

Lab File: VN064419.D

Acq: 2 Nov 2020 17:14

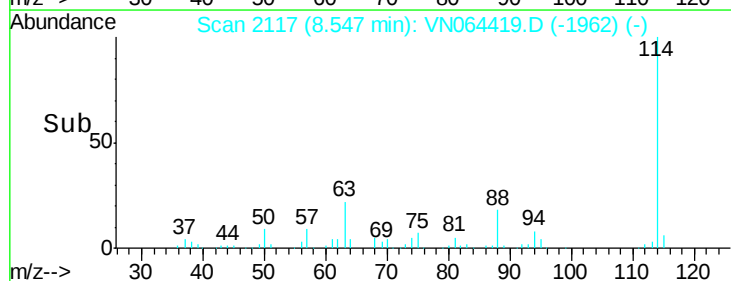
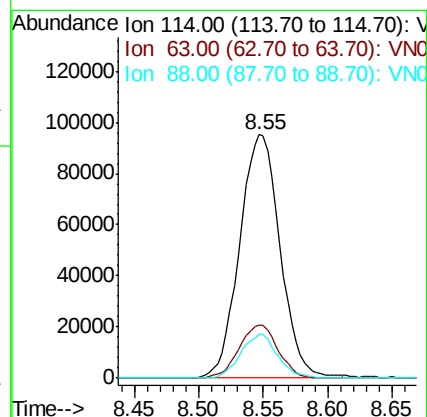
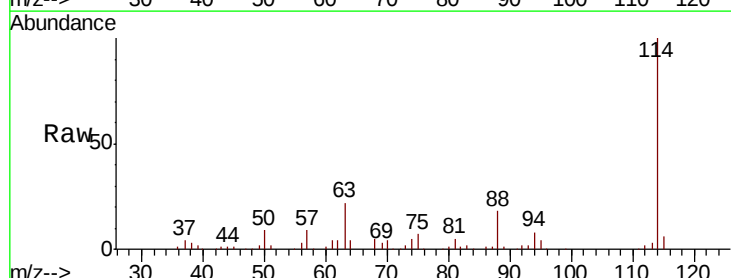
Tgt Ion: 114 Resp: 207820

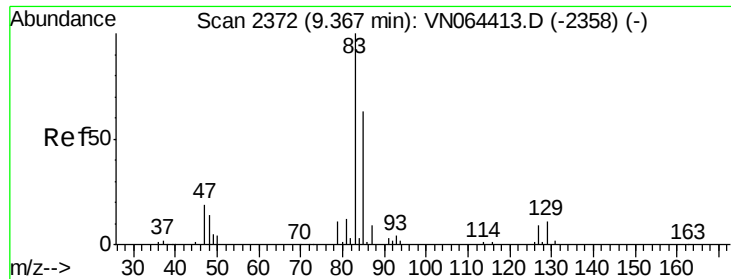
Ion Ratio Lower Upper

114 100

63 21.0 16.2 24.4

88 16.4 12.6 19.0





#41

Bromodichloromethane

Concen: 10.891 ug/l

RT: 9.37 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN064419.D

Acq: 2 Nov 2020 17:14

Instrument :

MSVOA_Y

ClientSampleId :

PW-1

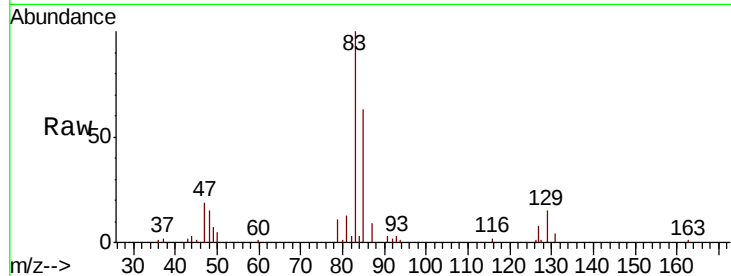
Tot Ion: 83 Resp: 40522

Ion Ratio Lower Upper

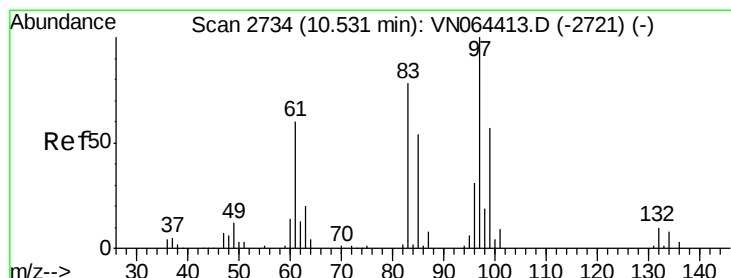
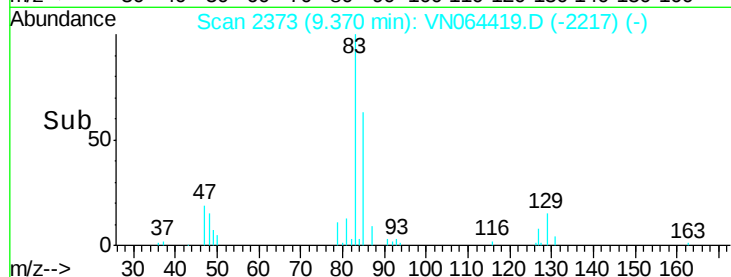
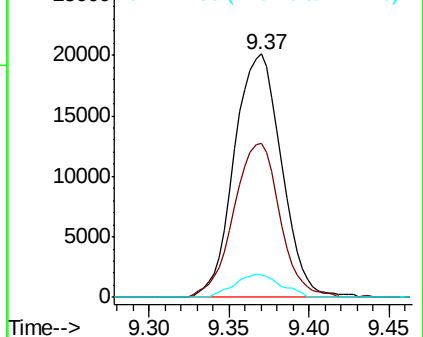
83 100

85 63.4 50.5 75.7

127 9.1 7.0 10.6



Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 85.00 (84.70 to 85.70): VNO
Ion 127.00 (126.70 to 127.70): VNO



#50

1,1,2-Trichloroethane

Concen: 3.588 ug/l

RT: 10.07 min Scan# 2590

Delta R.T. -0.46 min

Lab File: VN064419.D

Acq: 2 Nov 2020 17:14

Tgt Ion: 97 Resp: 8487

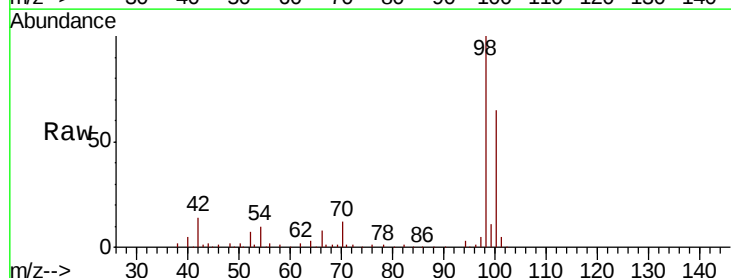
Ion Ratio Lower Upper

97 100

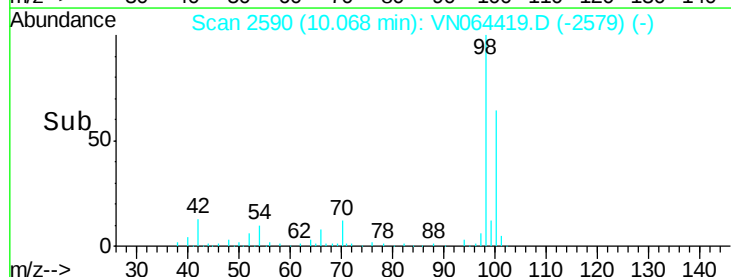
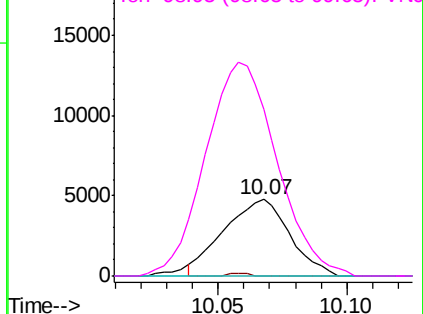
83 0.0 62.4 93.6#

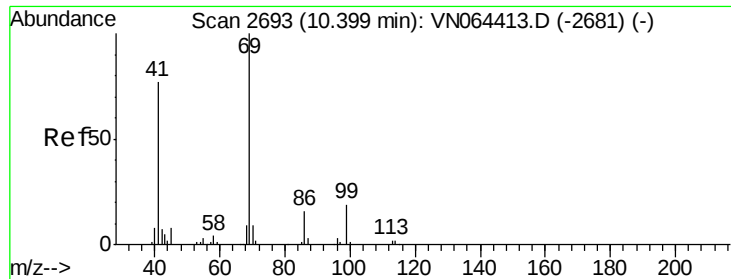
85 0.0 42.9 64.3#

99 208.3 45.7 68.5#



Abundance Ion 97.00 (96.70 to 97.70): VNO
Ion 82.95 (82.65 to 83.65): VNO
Ion 84.95 (84.65 to 85.65): VNO
Ion 98.95 (98.65 to 99.65): VNO





#51

Ethyl methacrylate

Concen: 0.305 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. -0.34 min

Lab File: VN064419.D

Acq: 2 Nov 2020 17:14

Instrument :

MSVOA_Y

ClientSampled :

PW-1

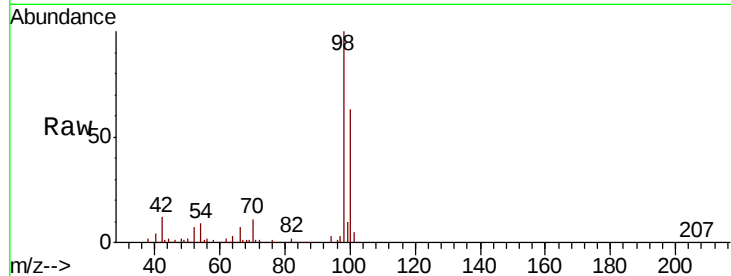
Tot Ion: 69 Resp: 1036

Ion Ratio Lower Upper

69 100

41 39.7 38.4 115.2

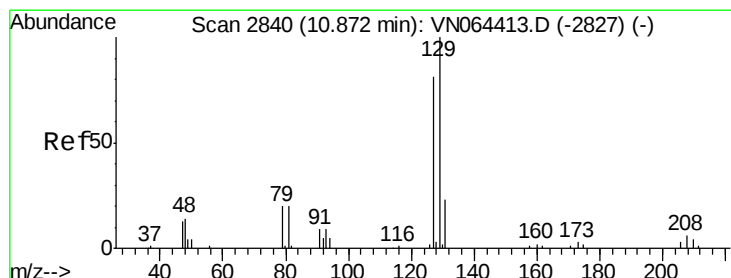
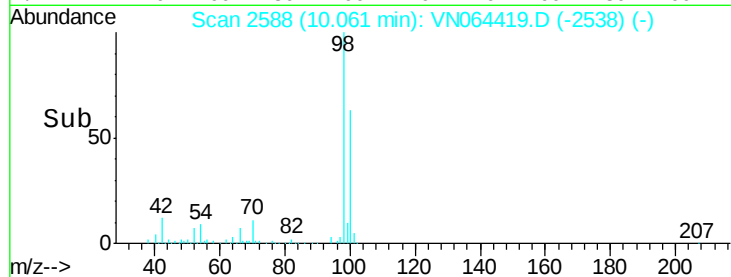
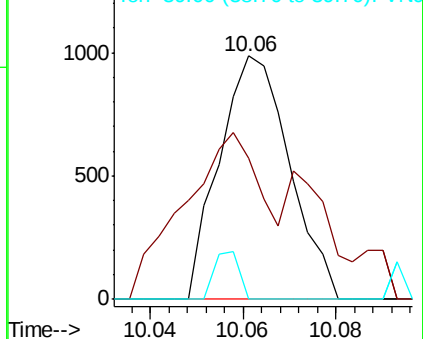
39 0.0 22.7 68.0#



Abundance Ion 69.00 (68.70 to 69.70): VN064419.D (-2538) (-)

Ion 41.00 (40.70 to 41.70): VN064419.D (-2538) (-)

Ion 39.00 (38.70 to 39.70): VN064419.D (-2538) (-)



#53

Dibromochloromethane

Concen: 2.585 ug/l

RT: 10.87 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VN064419.D

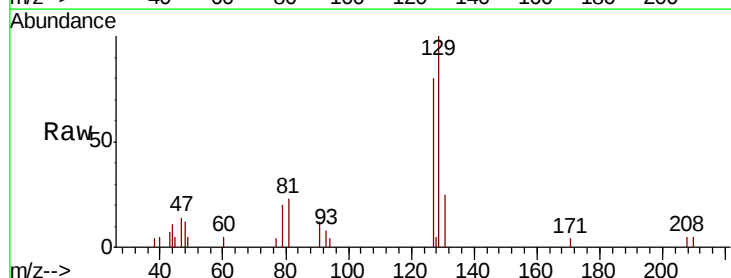
Acq: 2 Nov 2020 17:14

Tgt Ion: 129 Resp: 7510

Ion Ratio Lower Upper

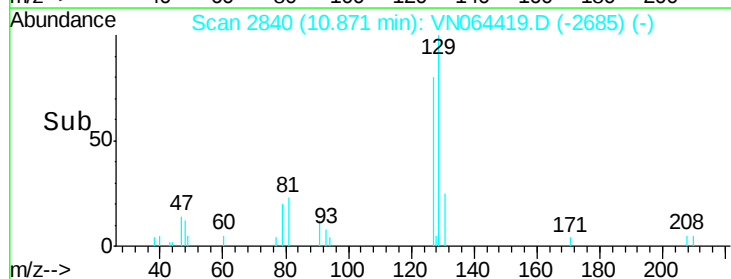
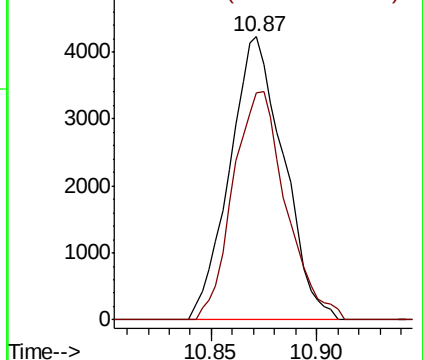
129 100

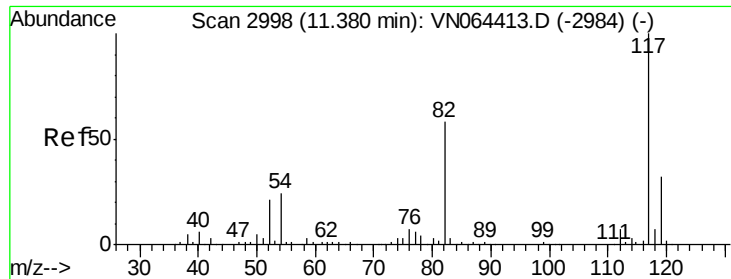
127 79.1 38.6 115.7



Abundance Ion 129.00 (128.70 to 129.70): VN064419.D (-2685) (-)

Ion 127.00 (126.70 to 127.70): VN064419.D (-2685) (-)

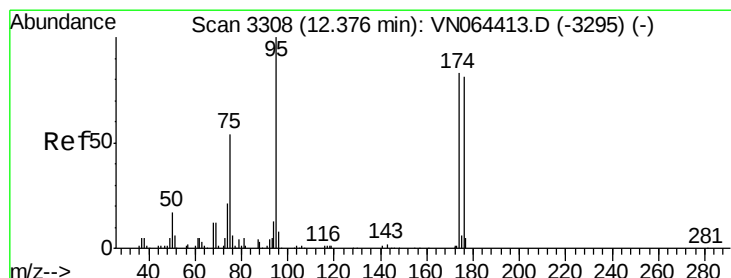
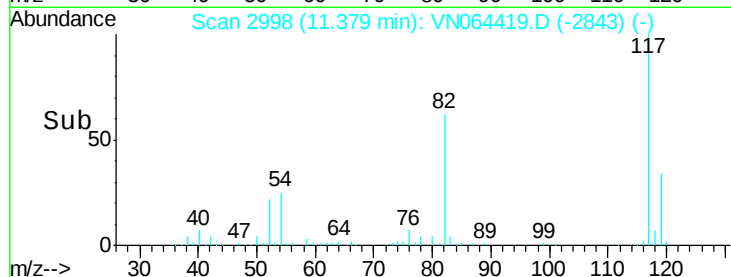
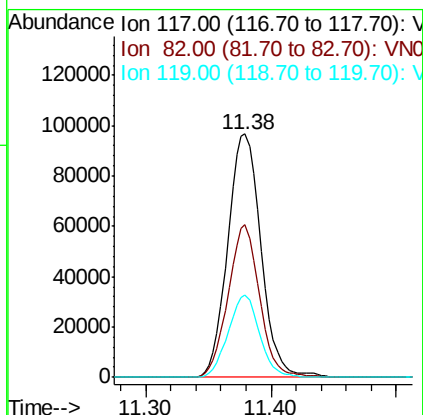
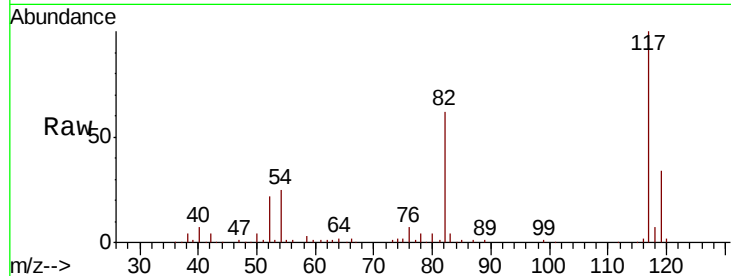




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064419.D
Acq: 2 Nov 2020 17:14

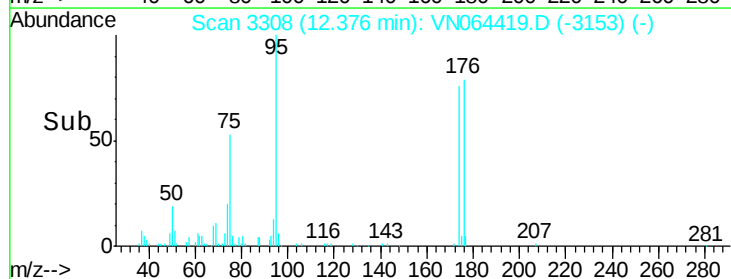
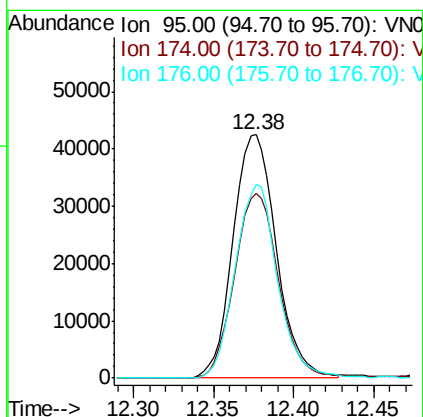
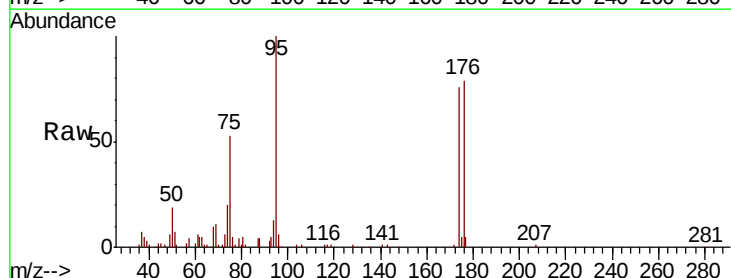
Instrument :
MSVOA_Y
ClientSampleId :
PW-1

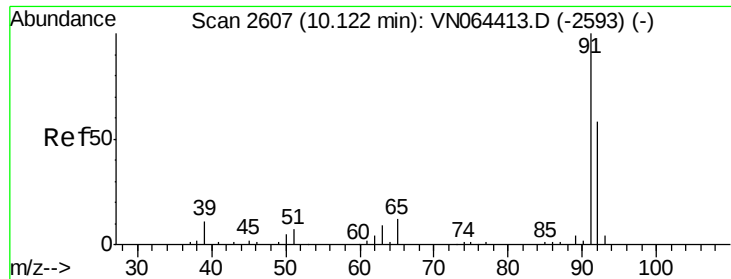
Tot Ion:117 Resp: 178277
Ion Ratio Lower Upper
117 100
82 59.2 46.1 69.1
119 31.9 26.2 39.2



#60
4-Bromofluorobenzene
Concen: 26.023 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN064419.D
Acq: 2 Nov 2020 17:14

Tgt Ion: 95 Resp: 78407
Ion Ratio Lower Upper
95 100
174 77.4 65.2 97.8
176 78.0 62.2 93.4





#62

Toluene

Concen: 0.858 ug/l

RT: 10.12 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN064419.D

Acq: 2 Nov 2020 17:14

Instrument :

MSVOA_Y

ClientSampleId :

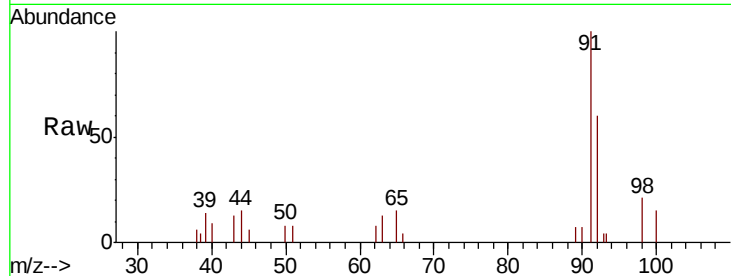
PW-1

Tot Ion: 91 Resp: 8566

Ion Ratio Lower Upper

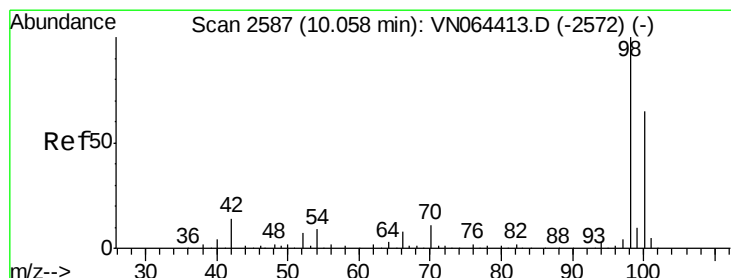
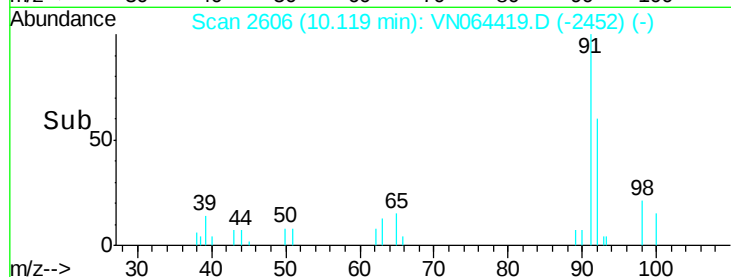
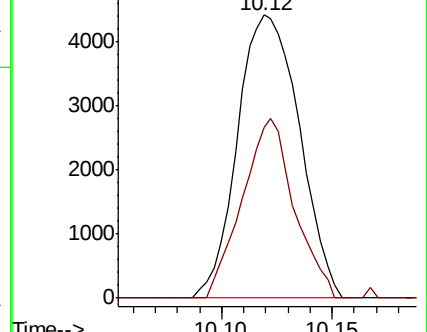
91 100

92 53.5 46.2 69.4



Abundance Ion 91.00 (90.70 to 91.70): VN064419.D (-2593) (-)

Ion 92.00 (91.70 to 92.70): VN064419.D (-2593) (-)



#63

Toluene-d8

Concen: 30.576 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064419.D

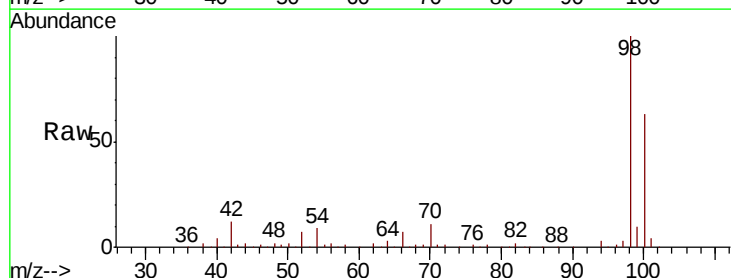
Acq: 2 Nov 2020 17:14

Tgt Ion: 98 Resp: 243075

Ion Ratio Lower Upper

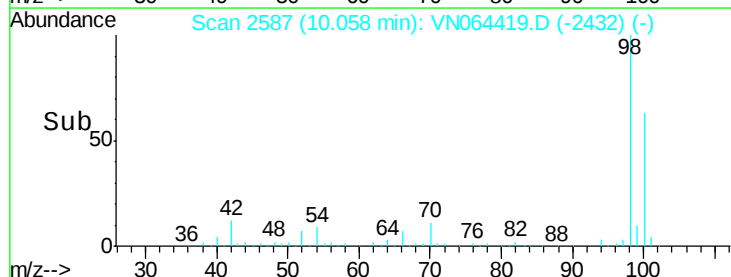
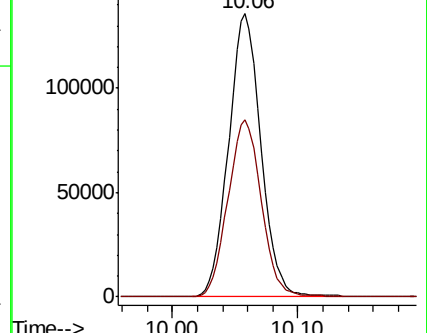
98 100

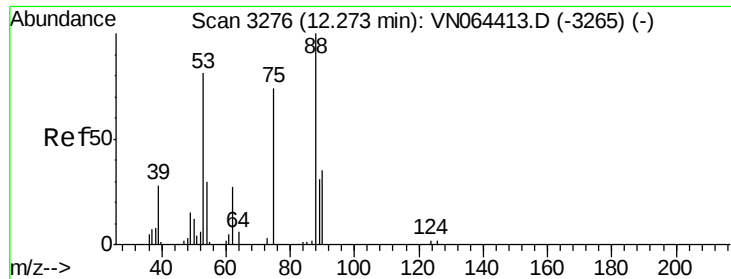
100 64.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN064419.D (-2432) (-)

Ion 100.00 (99.70 to 100.70): VN064419.D (-2432) (-)





#77
t-1,4-Dichloro-2-butene
Concen: 39.063 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.10 min
Lab File: VN064419.D
Acq: 2 Nov 2020 17:14

Instrument :
MSVOA_Y
ClientSampleId :
PW-1

Tot Ion: 75 Resp: 41313
Ion Ratio Lower Upper
75 100
53 0.0 54.1 162.4#
89 0.0 23.1 69.3#

