

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD121619\
 Data File : VD064529.D
 Acq On : 16 Dec 2019 17:58
 Operator : VA/SY
 Sample : K6299-03
 Misc : 4.86G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SHORE-RD-BH-02

Quant Time: Dec 17 01:56:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

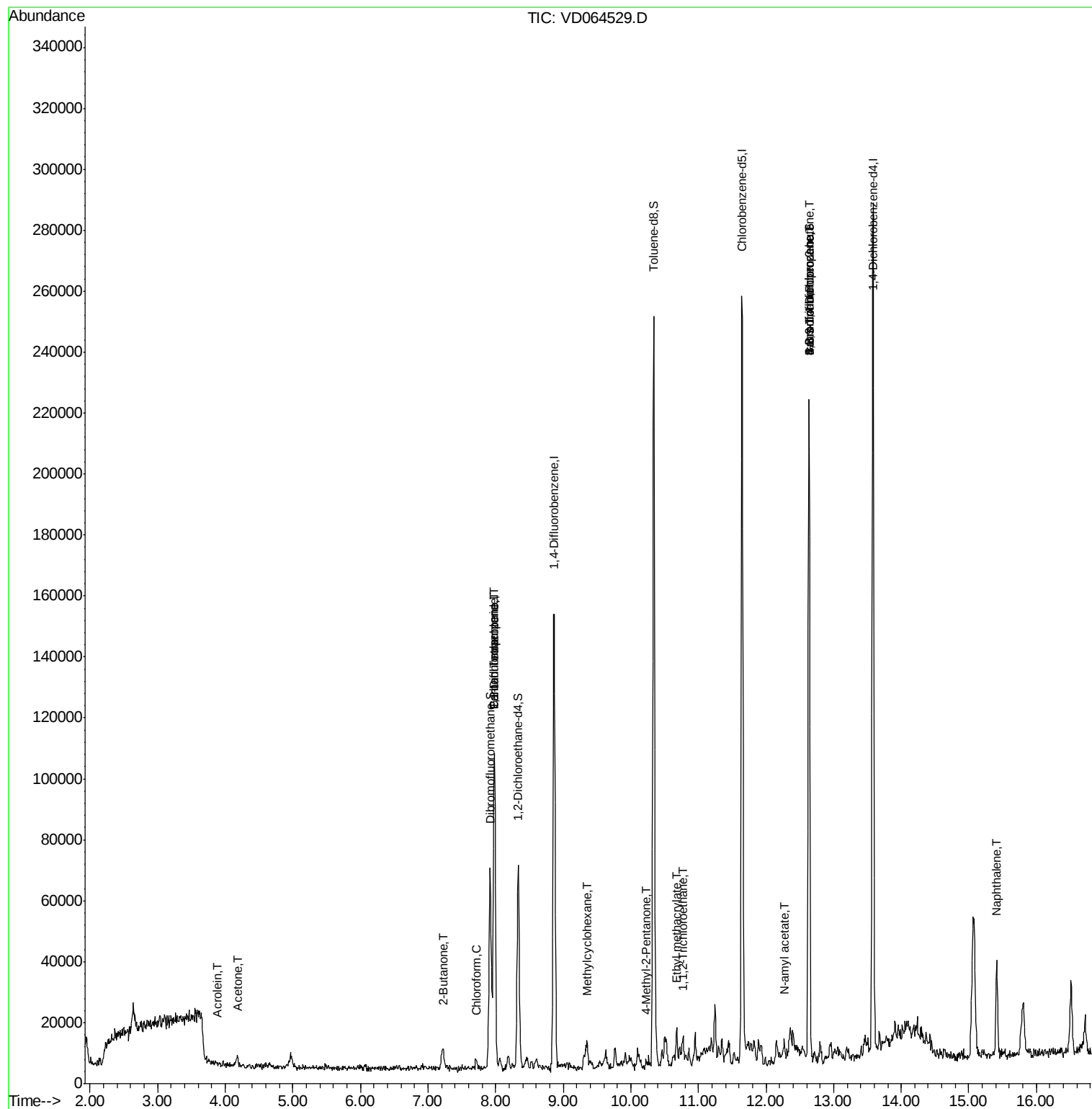
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	83460	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	131146	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	142498	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	77286	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	53813	71.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	142.46%	
35) Dibromofluoromethane	7.92	113	44985	54.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.88%	
50) Toluene-d8	10.34	98	158725	51.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.00%	
62) 4-Bromofluorobenzene	12.64	95	64620	64.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	129.20%	
Target Compounds						
					Qvalue	
13) Acrolein	3.89	56	66	1.006	ug/l #	60
16) Acetone	4.18	43	4875	31.934	ug/l #	61
20) Methylene Chloride	4.97	84	2102	Below Cal	#	62
25) 2-Butanone	7.23	43	407	1.885	ug/l #	49
30) Chloroform	7.71	83	2627	1.820	ug/l	97
31) Cyclohexane	7.99	56	2350	Below Cal	#	56
36) 1,1-Dichloropropene	7.99	75	5498	4.432	ug/l #	49
38) Carbon Tetrachloride	7.98	117	7987	6.101	ug/l #	18
39) Methylcyclohexane	9.35	83	2958	1.922	ug/l #	75
51) 4-Methyl-2-Pentanone	10.23	43	743	1.451	ug/l #	51
55) 1,1,2-Trichloroethane	10.77	97	3218	5.054	ug/l #	15
56) Ethyl methacrylate	10.68	69	2005	2.469	ug/l #	61
71) Bromoform	12.64	173	1033	1.569	ug/l #	1
74) N-amyl acetate	12.27	43	1705	1.351	ug/l #	71
76) 1,2,3-Trichloropropane	12.64	75	34743	54.664	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	34743	119.196	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.63	75	55	Below Cal	#	1
95) Naphthalene	15.41	128	26771	9.408	ug/l	97

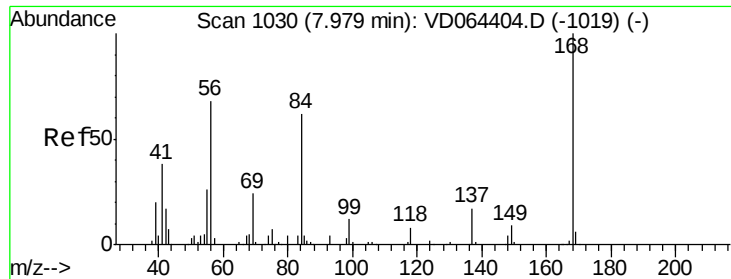
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

Instrument :

MSVOA_D

ClientSampleId :

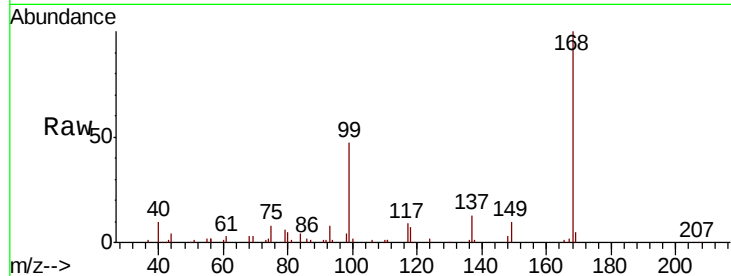
SHORE-RD-BH-02

Tgt Ion:168 Resp: 83460

Ion Ratio Lower Upper

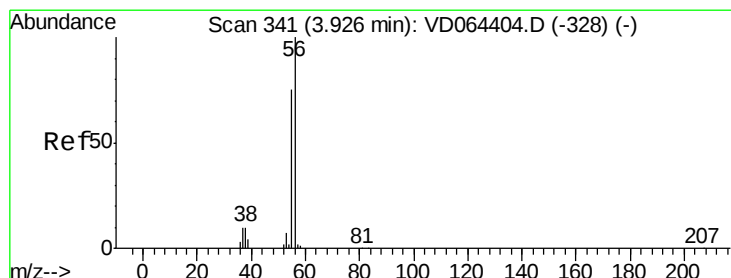
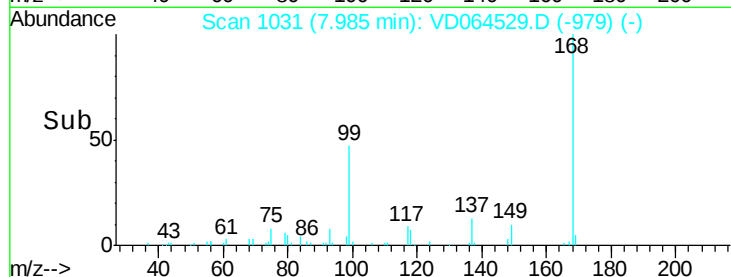
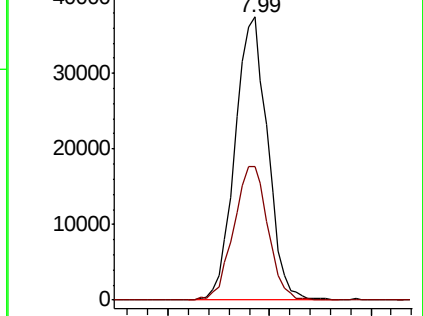
168 100

99 47.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#13

Acrolein

Concen: 1.006 ug/l

RT: 3.89 min Scan# 334

Delta R.T. -0.04 min

Lab File: VD064529.D

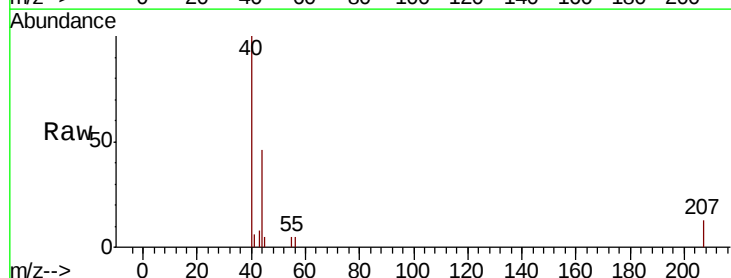
Acq: 16 Dec 2019 17:58

Tgt Ion: 56 Resp: 66

Ion Ratio Lower Upper

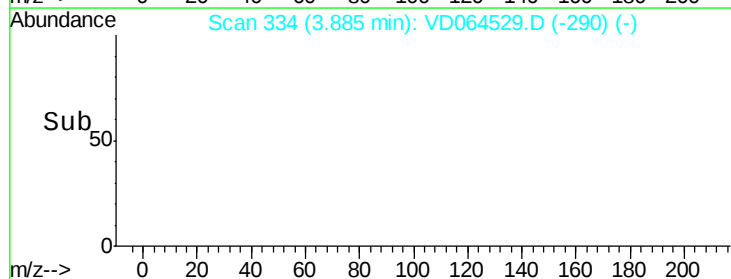
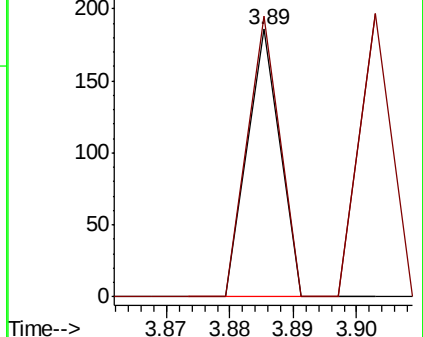
56 100

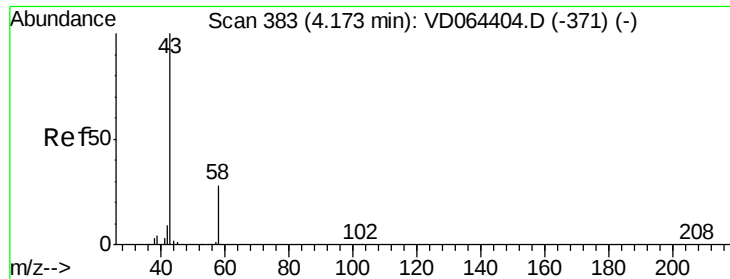
55 104.5 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 31.934 ug/l

RT: 4.18 min Scan# 384

Delta R.T. 0.01 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

Instrument :

MSVOA_D

ClientSampleId :

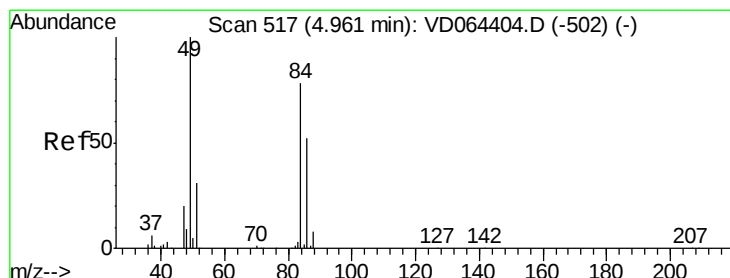
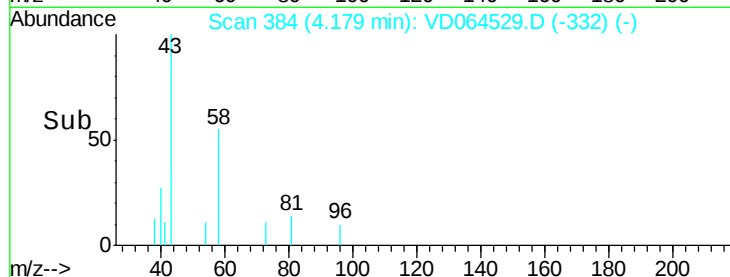
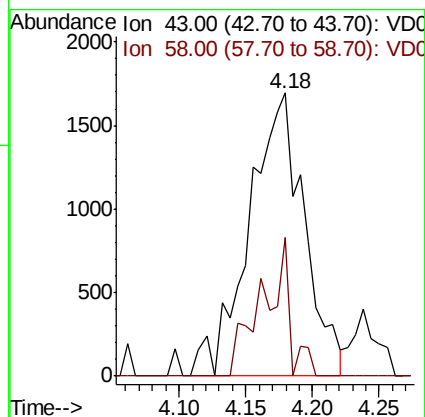
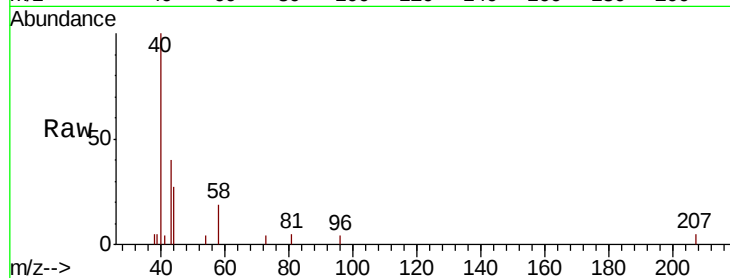
SHORE-RD-BH-02

Tgt Ion: 43 Resp: 4875

Ion Ratio Lower Upper

43 100

58 48.9 22.6 33.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

Tgt Ion: 84 Resp: 2102

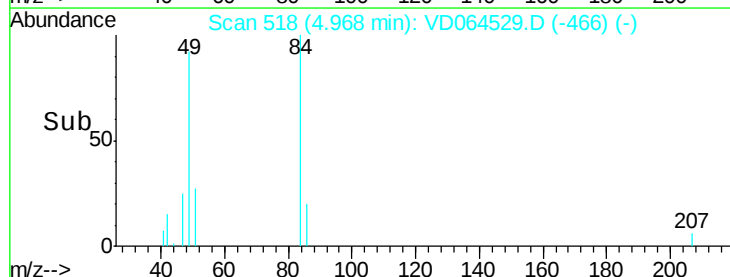
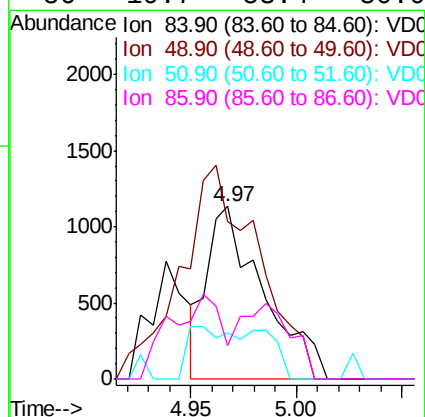
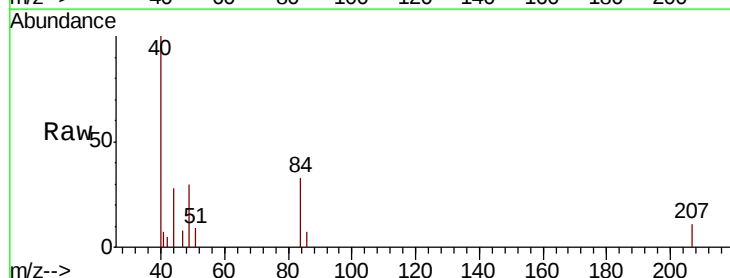
Ion Ratio Lower Upper

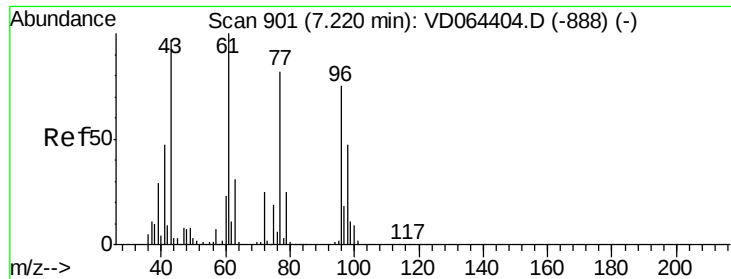
84 100

49 91.7 102.6 153.8#

51 26.7 32.0 48.0#

86 19.7 53.4 80.0#





#25

2-Butanone

Concen: 1.885 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

Instrument :

MSVOA_D

ClientSampleId :

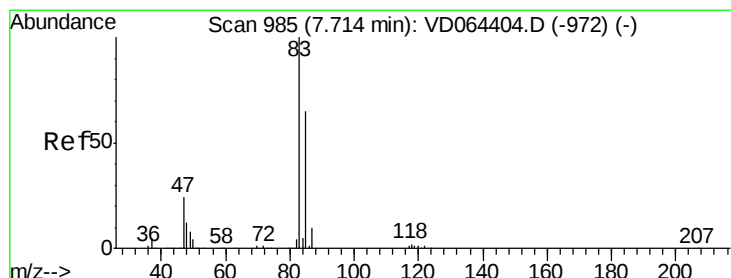
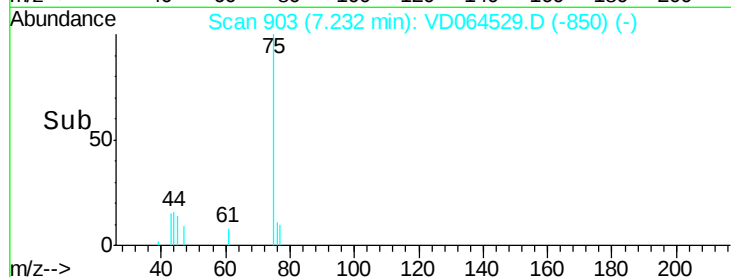
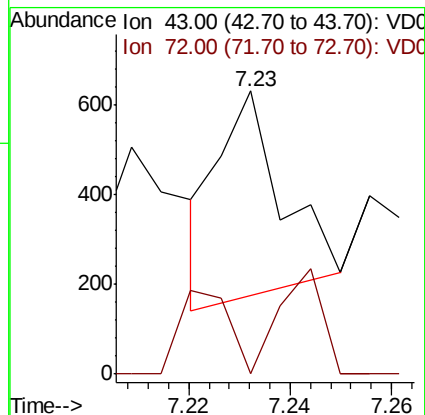
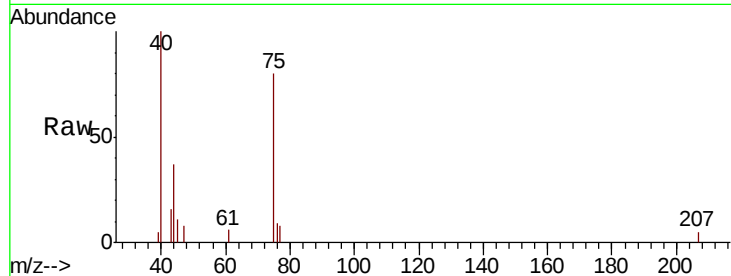
SHORE-RD-BH-02

Tgt Ion: 43 Resp: 407

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.4#



#30

Chloroform

Concen: 1.820 ug/l

RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

Lab File: VD064529.D

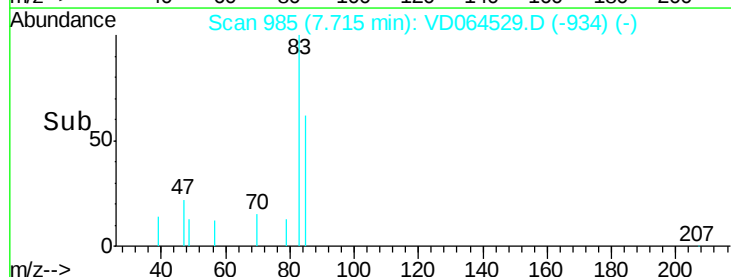
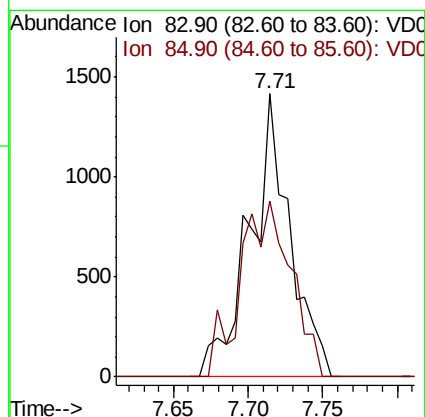
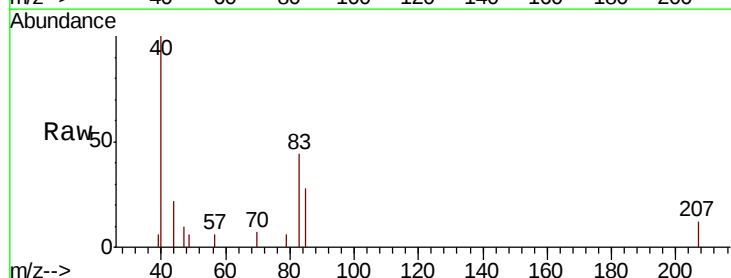
Acq: 16 Dec 2019 17:58

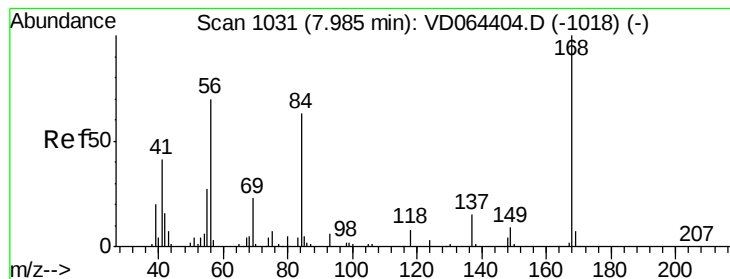
Tgt Ion: 83 Resp: 2627

Ion Ratio Lower Upper

83 100

85 62.1 51.8 77.6





#31

Cyclohexane

Concen: Below Cal

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

Instrument :

MSVOA_D

ClientSampleId :

SHORE-RD-BH-02

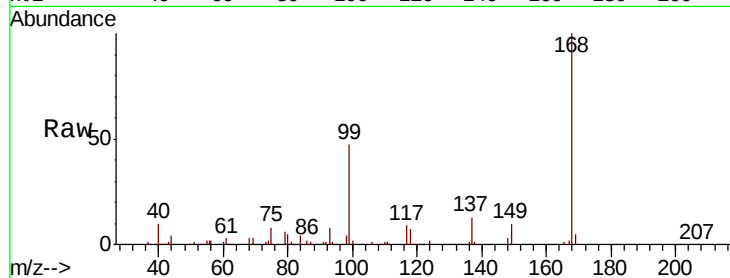
Tgt Ion: 56 Resp: 2350

Ion Ratio Lower Upper

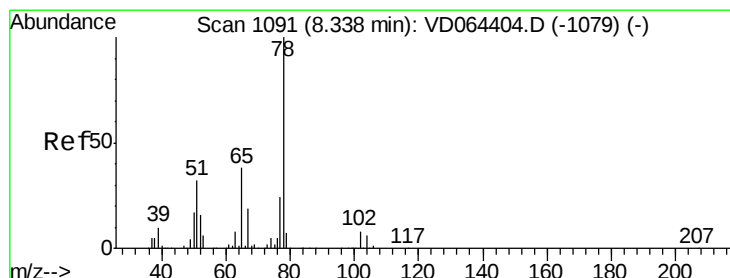
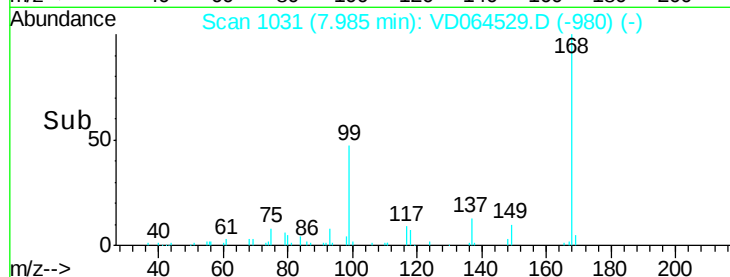
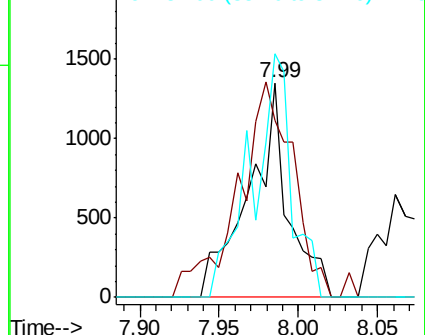
56 100

69 82.8 26.2 39.4#

84 113.5 70.3 105.5#



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



#33

1,2-Dichloroethane-d4

Concen: 71.234 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD064529.D

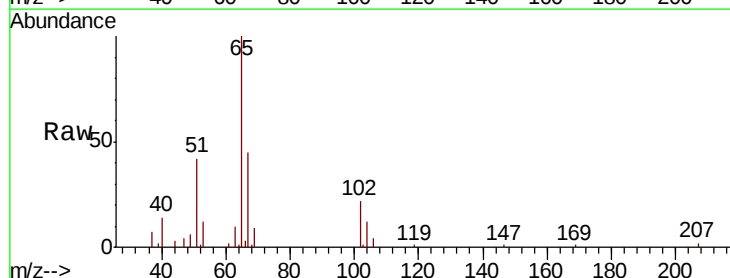
Acq: 16 Dec 2019 17:58

Tgt Ion: 65 Resp: 53813

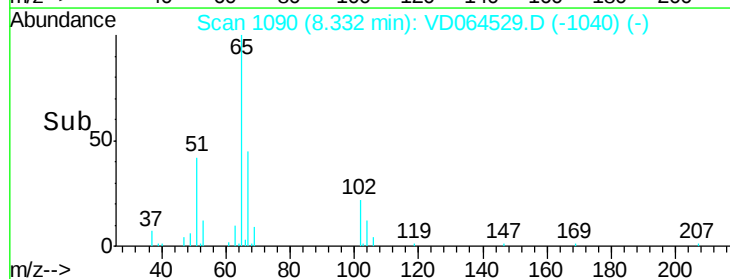
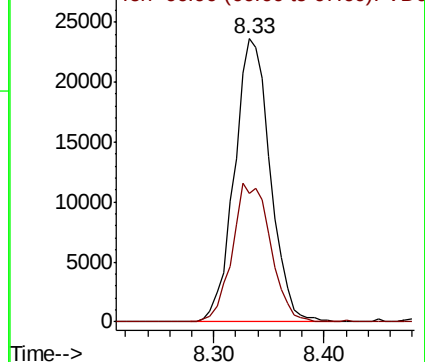
Ion Ratio Lower Upper

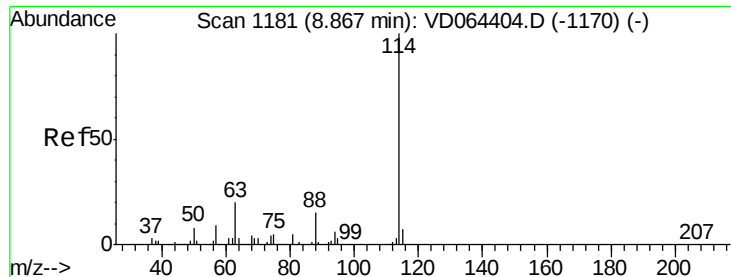
65 100

67 51.9 0.0 102.0



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

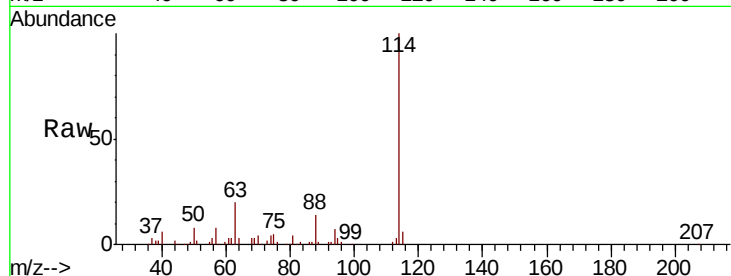




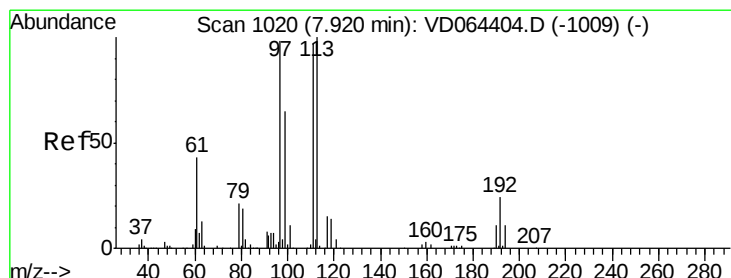
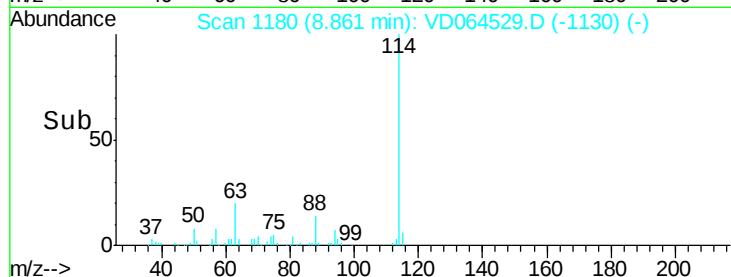
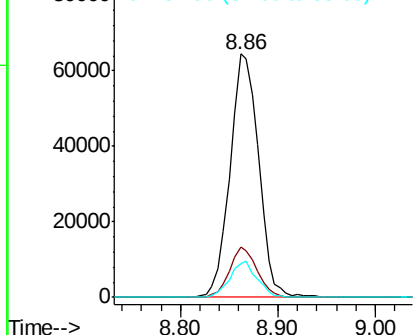
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: VD064529.D
 Acq: 16 Dec 2019 17:58

Instrument :
 MSVOA_D
 ClientSampleId :
 SHORE-RD-BH-02

Tgt Ion:114 Resp: 131146
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.0
 88 13.9 0.0 29.2

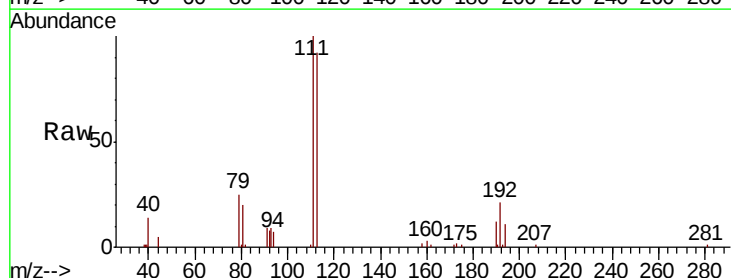


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

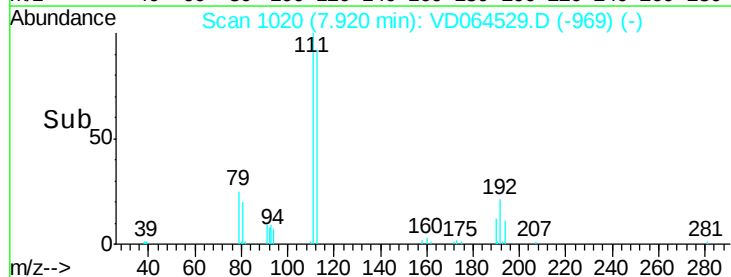
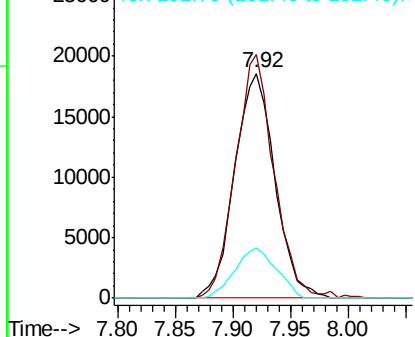


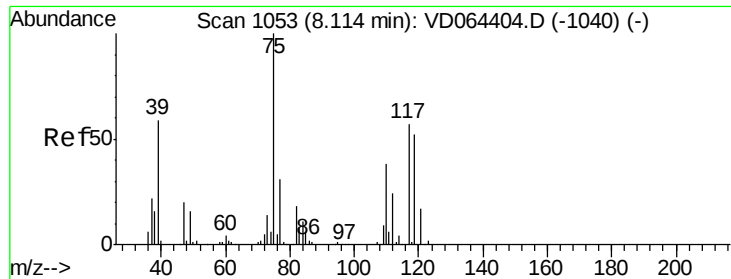
#35
 Dibromofluoromethane
 Concen: 54.442 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064529.D
 Acq: 16 Dec 2019 17:58

Tgt Ion:113 Resp: 44985
 Ion Ratio Lower Upper
 113 100
 111 103.8 79.4 119.2
 192 23.1 18.6 28.0



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

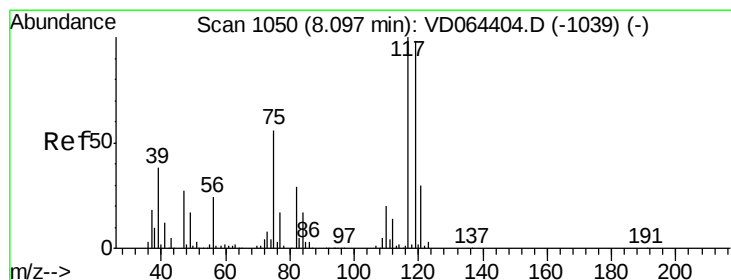
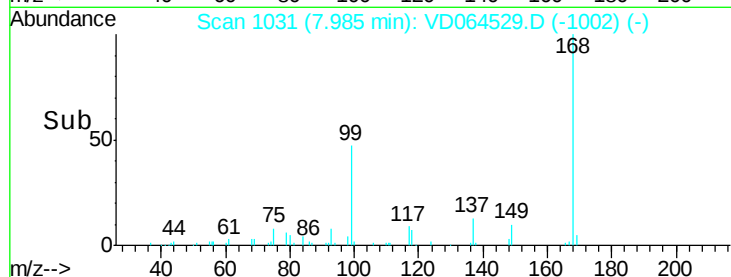
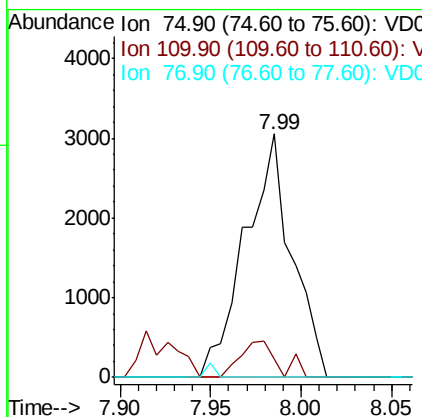
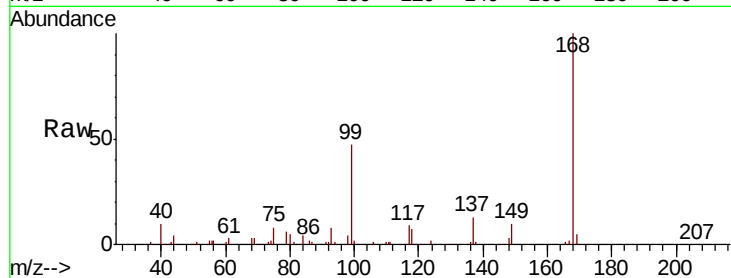




#36
 1,1-Dichloropropene
 Concen: 4.432 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064529.D
 Acq: 16 Dec 2019 17:58

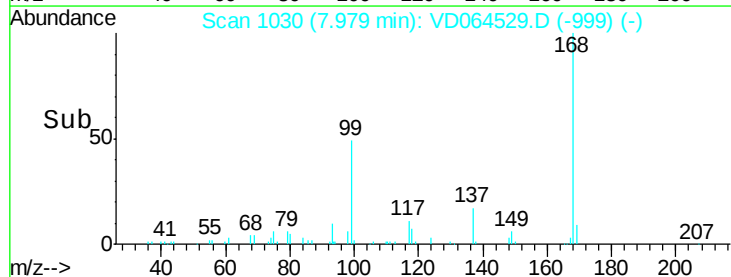
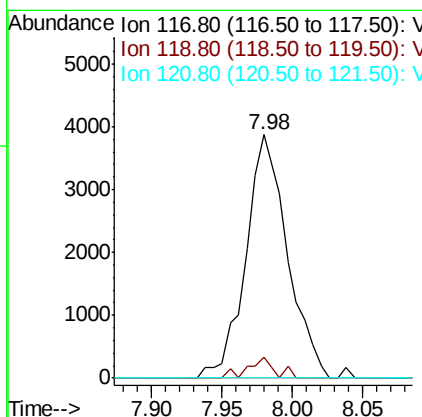
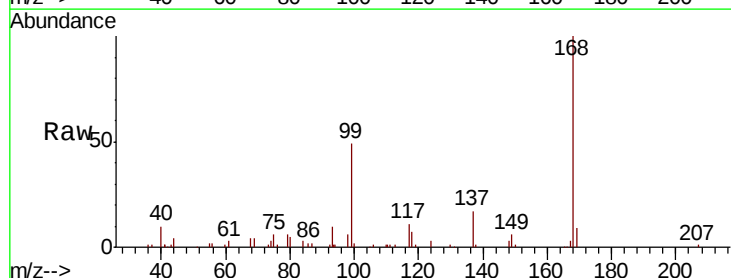
Instrument :
 MSVOA_D
 ClientSampleId :
 SHORE-RD-BH-02

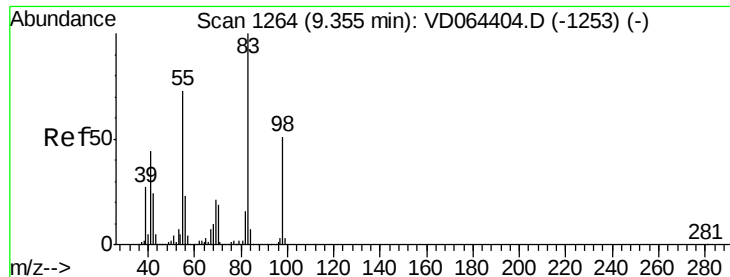
Tgt Ion: 75 Resp: 5498
 Ion Ratio Lower Upper
 75 100
 110 10.0 18.6 55.8#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.101 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.12 min
 Lab File: VD064529.D
 Acq: 16 Dec 2019 17:58

Tgt Ion: 117 Resp: 7987
 Ion Ratio Lower Upper
 117 100
 119 8.8 78.8 118.2#
 121 0.0 24.2 36.2#

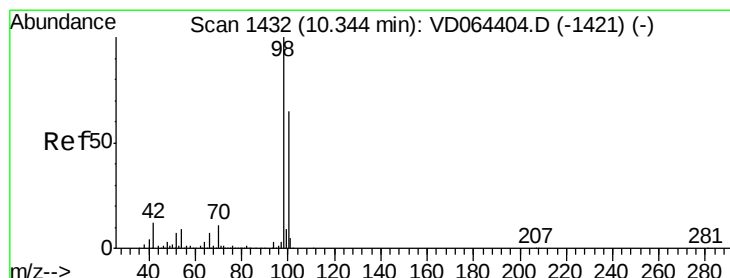
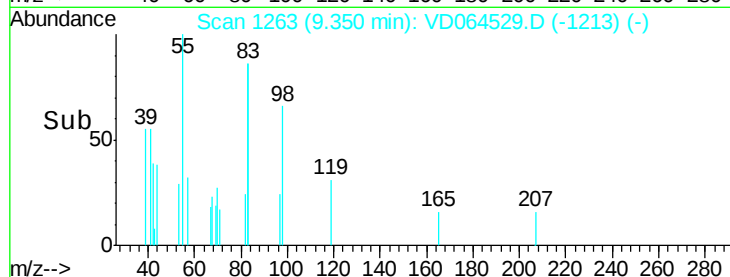
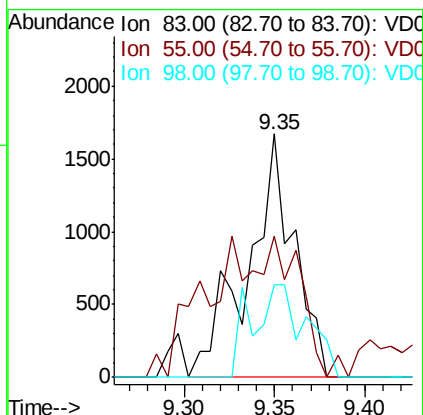
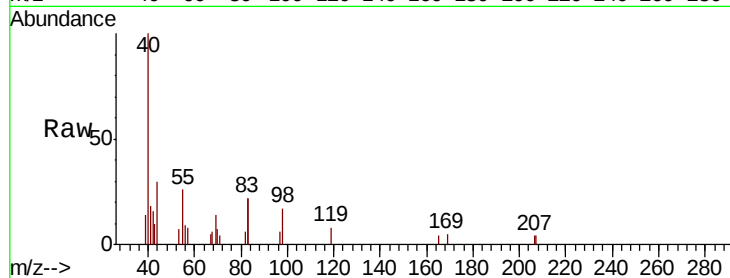




#39
Methylcyclohexane
Concen: 1.922 ug/l
RT: 9.35 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VD064529.D
Acq: 16 Dec 2019 17:58

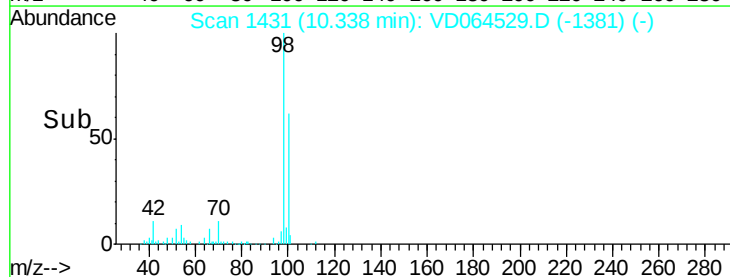
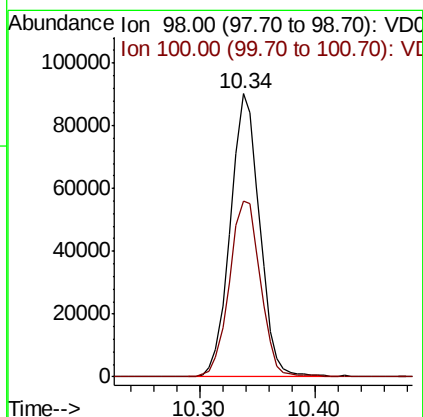
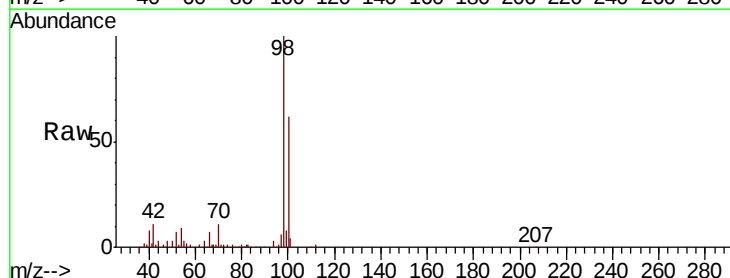
Instrument :
MSVOA_D
ClientSampleId :
SHORE-RD-BH-02

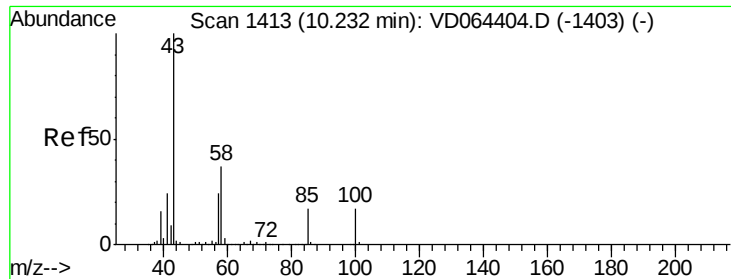
Tgt Ion: 83 Resp: 2958
Ion Ratio Lower Upper
83 100
55 48.8 58.6 87.8#
98 38.2 40.9 61.3#



#50
Toluene-d8
Concen: 50.996 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064529.D
Acq: 16 Dec 2019 17:58

Tgt Ion: 98 Resp: 158725
Ion Ratio Lower Upper
98 100
100 65.8 52.6 79.0





#51

4-Methyl-2-Pentanone

Concen: 1.451 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

Instrument :

MSVOA_D

ClientSampleId :

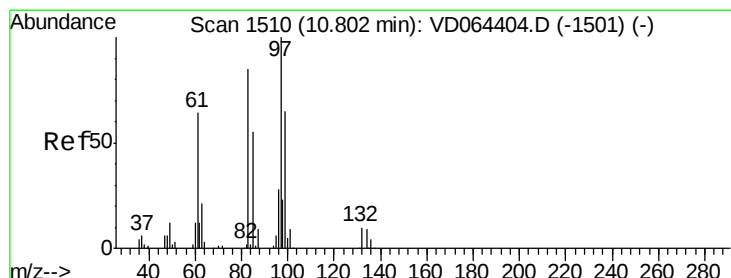
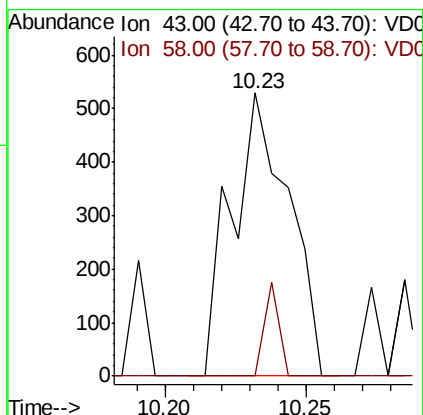
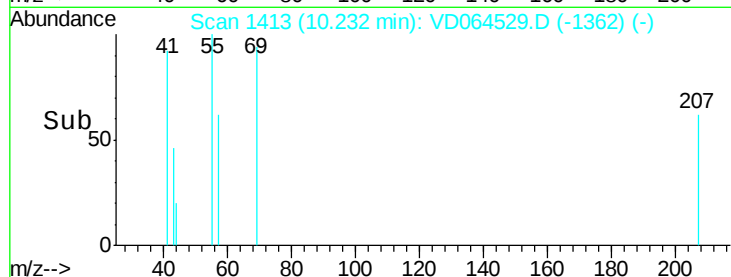
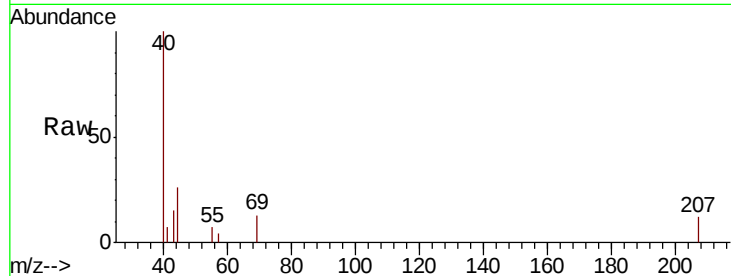
SHORE-RD-BH-02

Tgt Ion: 43 Resp: 743

Ion Ratio Lower Upper

43 100

58 8.3 30.6 46.0#



#55

1,1,2-Trichloroethane

Concen: 5.054 ug/l

RT: 10.77 min Scan# 1505

Delta R.T. -0.03 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

Tgt Ion: 97 Resp: 3218

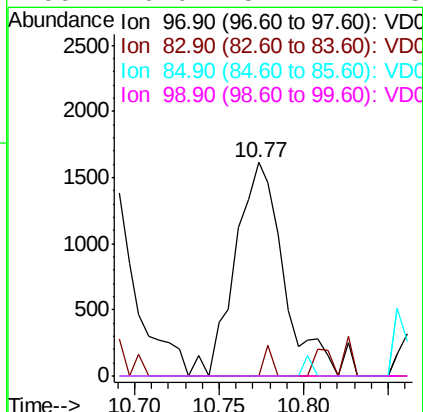
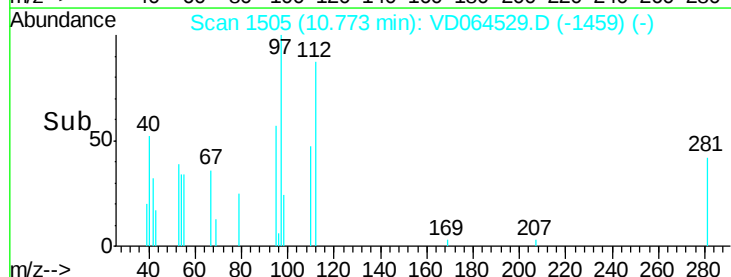
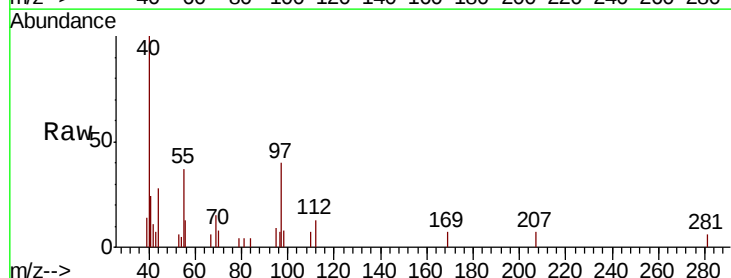
Ion Ratio Lower Upper

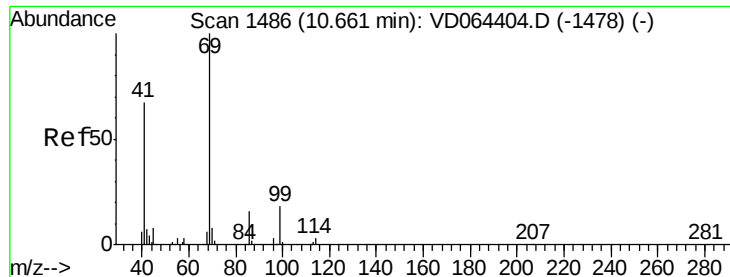
97 100

83 0.0 67.8 101.8#

85 0.0 43.7 65.5#

99 0.0 51.7 77.5#





#56

Ethyl methacrylate

Concen: 2.469 ug/l

RT: 10.68 min Scan# 1489

Delta R.T. 0.02 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

Instrument :

MSVOA_D

ClientSampleId :

SHORE-RD-BH-02

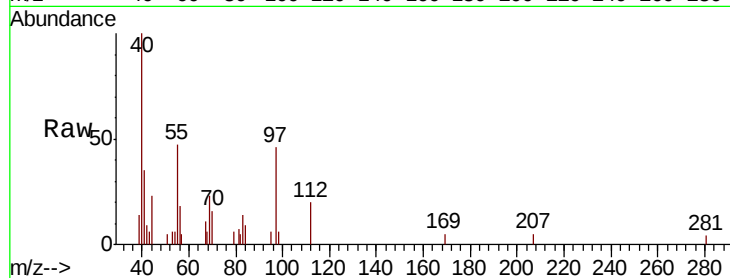
Tgt Ion: 69 Resp: 2005

Ion Ratio Lower Upper

69 100

41 94.0 55.0 82.4#

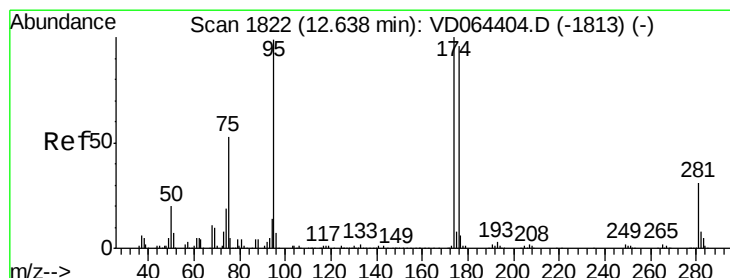
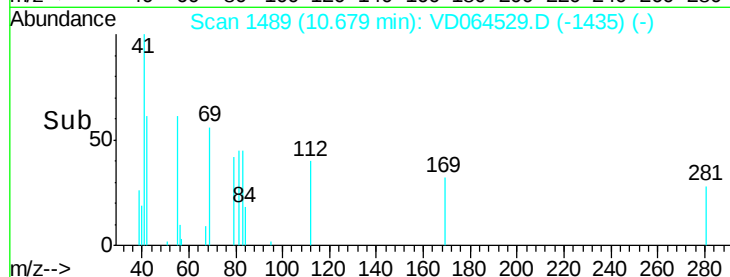
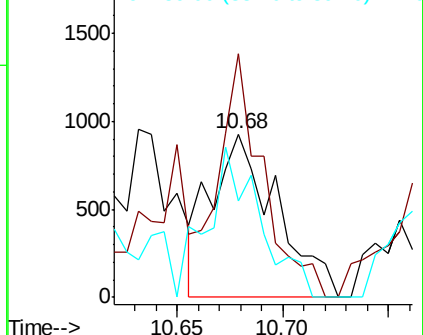
39 74.5 33.0 49.6#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC



#62

4-Bromofluorobenzene

Concen: 64.602 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

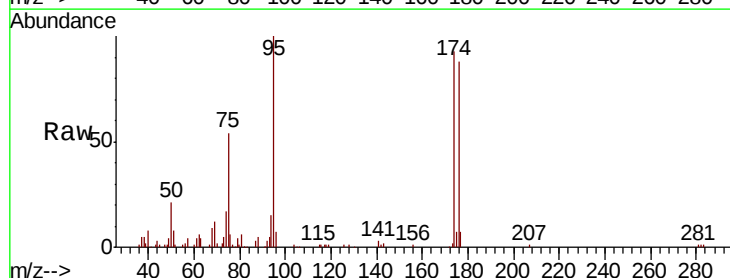
Tgt Ion: 95 Resp: 64620

Ion Ratio Lower Upper

95 100

174 95.3 0.0 197.2

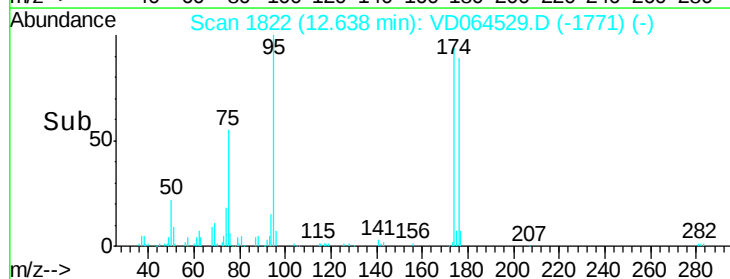
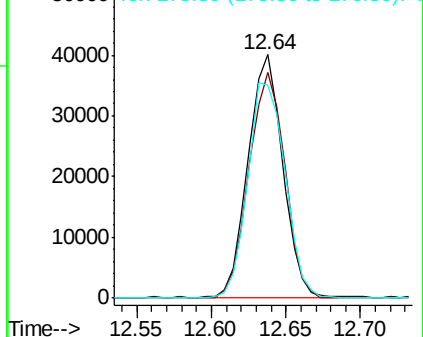
176 95.3 0.0 189.6

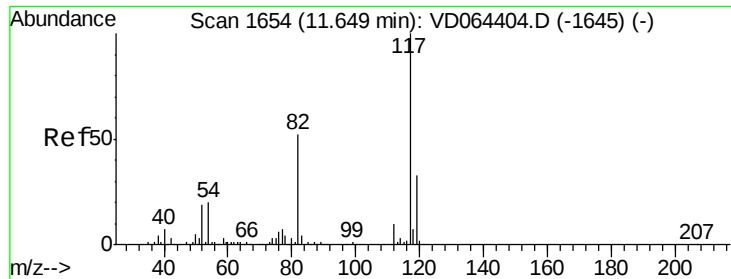


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

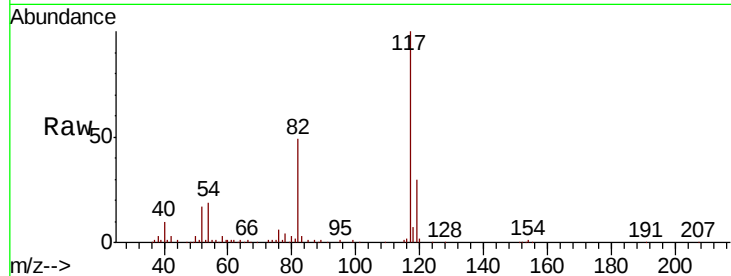




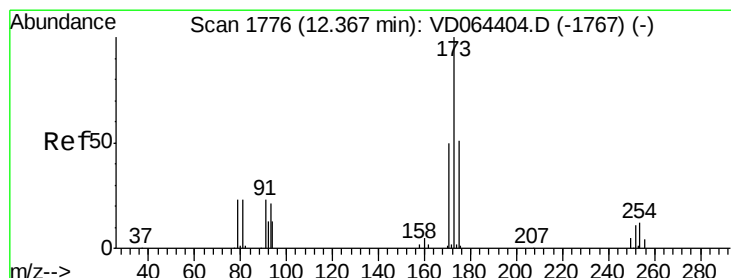
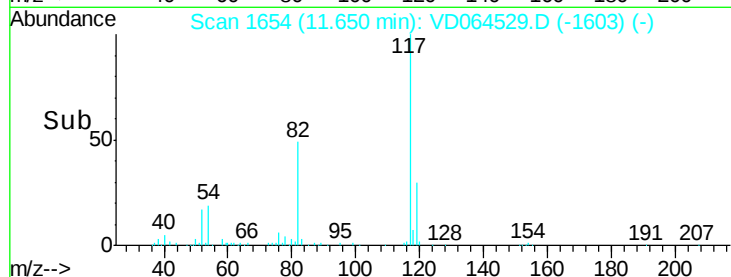
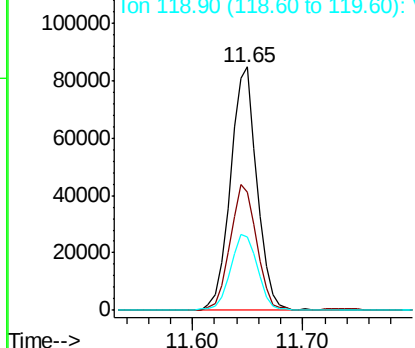
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064529.D
Acq: 16 Dec 2019 17:58

Instrument :
MSVOA_D
ClientSampleId :
SHORE-RD-BH-02

Tgt Ion:117 Resp: 142498
Ion Ratio Lower Upper
117 100
82 48.4 41.4 62.2
119 30.4 26.2 39.2

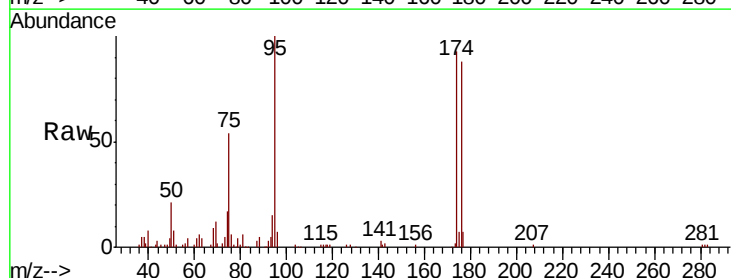


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

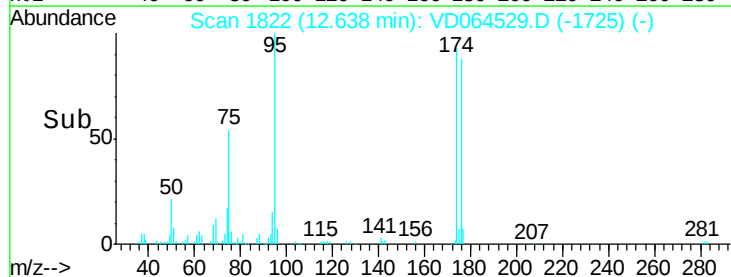
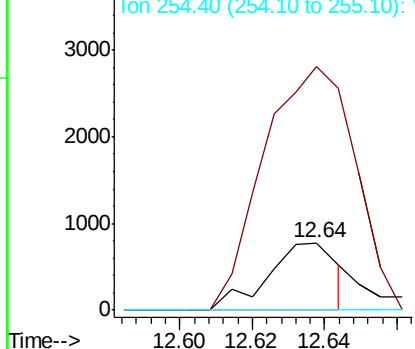


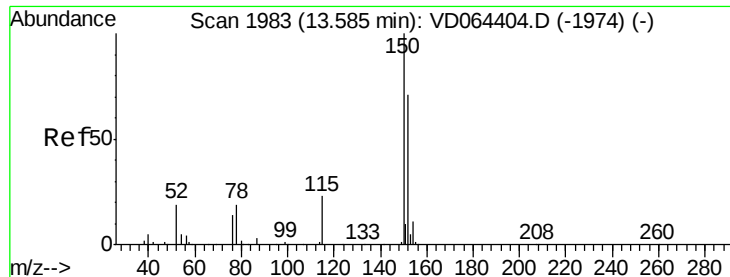
#71
Bromoform
Concen: 1.569 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.27 min
Lab File: VD064529.D
Acq: 16 Dec 2019 17:58

Tgt Ion:173 Resp: 1033
Ion Ratio Lower Upper
173 100
175 407.6 25.3 75.8#
254 0.0 0.0 0.0



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: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

Instrument :

MSVOA_D

ClientSampleId :

SHORE-RD-BH-02

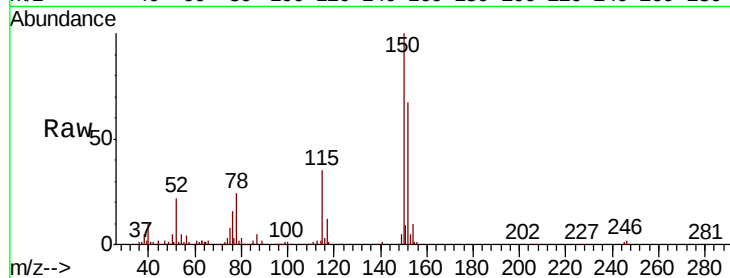
Tgt Ion:152 Resp: 77286

Ion Ratio Lower Upper

152 100

115 55.5 26.7 80.1

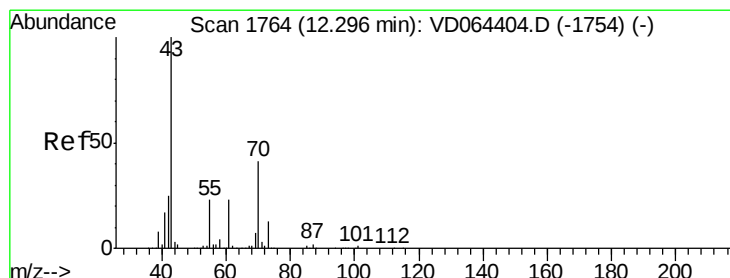
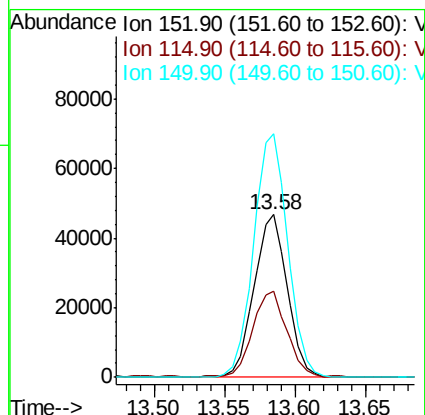
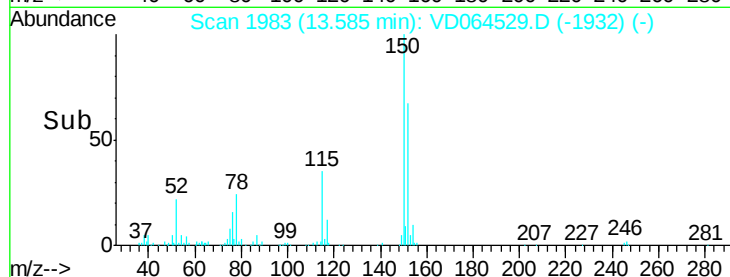
150 153.3 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 1.351 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

Tgt Ion: 43 Resp: 1705

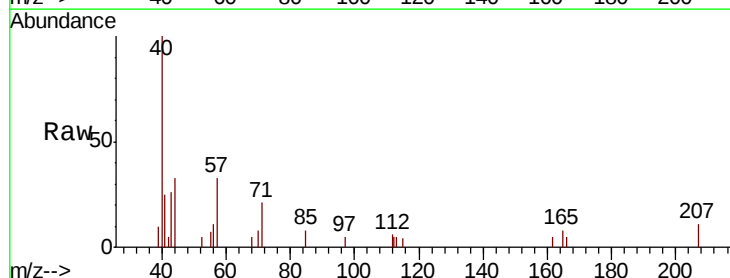
Ion Ratio Lower Upper

43 100

70 21.9 33.4 50.2#

55 19.9 18.9 28.3

61 0.0 18.5 27.7#

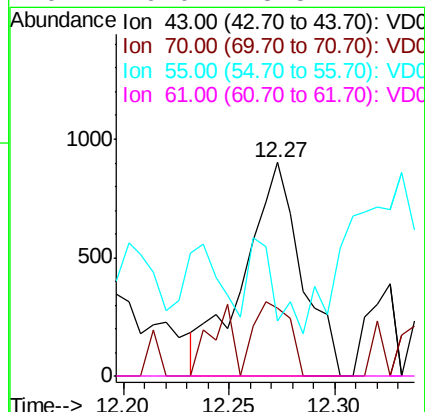
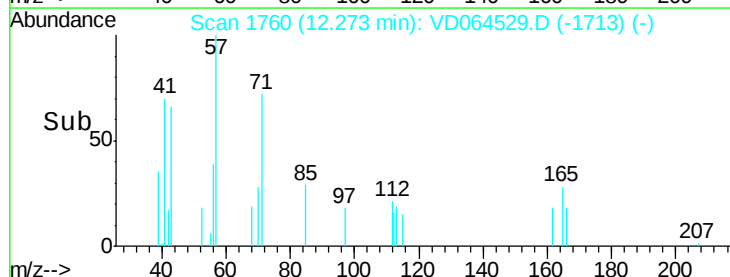


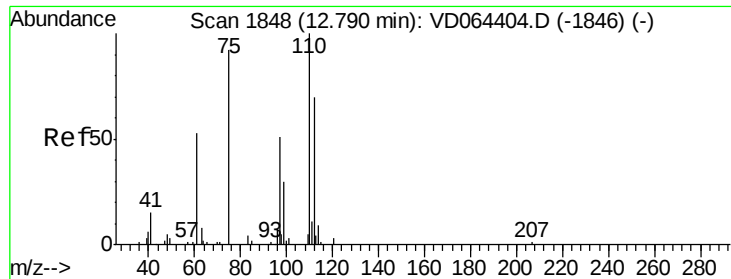
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#76

1,2,3-Trichloropropane

Concen: 54.664 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

Instrument :

MSVOA_D

ClientSampleId :

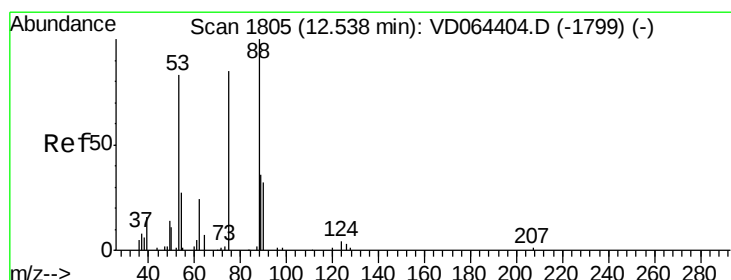
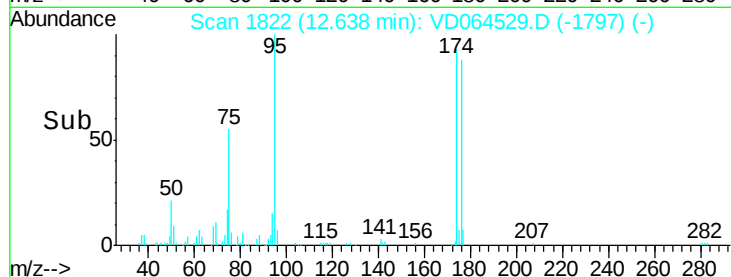
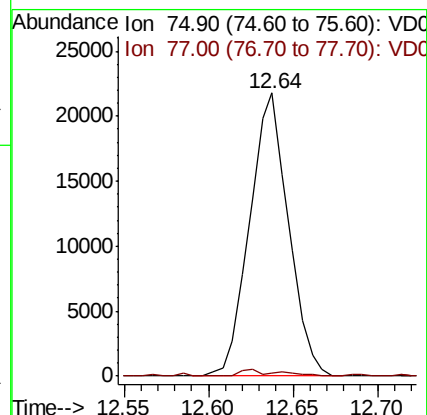
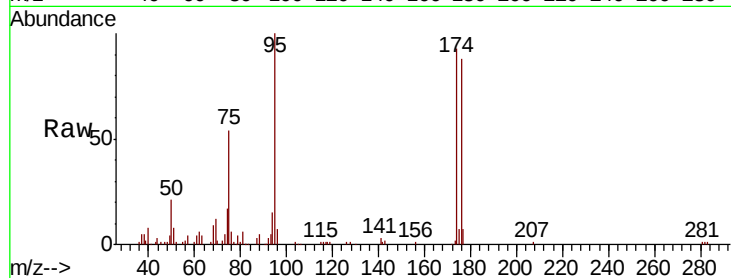
SHORE-RD-BH-02

Tgt Ion: 75 Resp: 34743

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 119.196 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

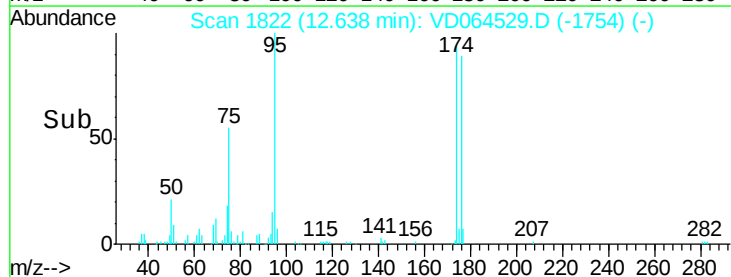
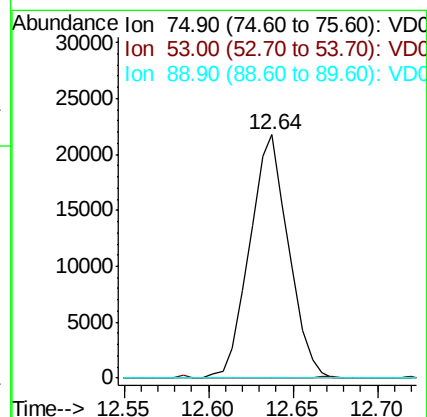
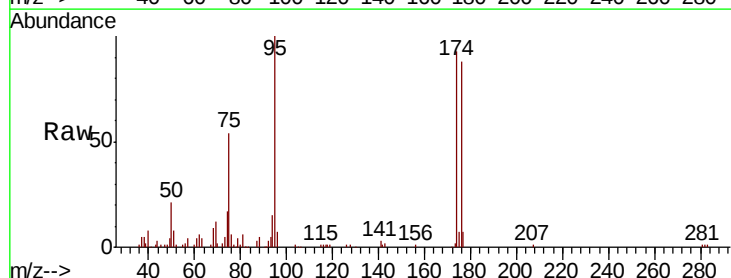
Tgt Ion: 75 Resp: 34743

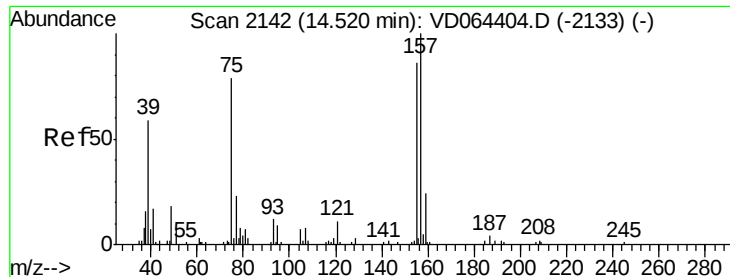
Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.0 38.5 57.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.63 min Scan# 2161

Delta R.T. 0.11 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

Instrument :

MSVOA_D

ClientSampleId :

SHORE-RD-BH-02

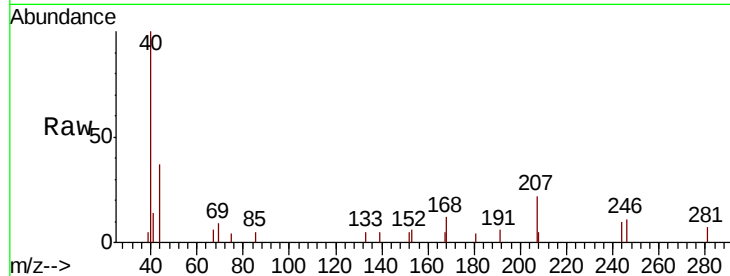
Tgt Ion: 75 Resp: 55

Ion Ratio Lower Upper

75 100

155 0.0 51.9 155.7#

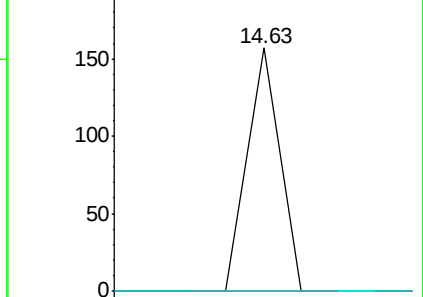
157 0.0 63.2 189.8#



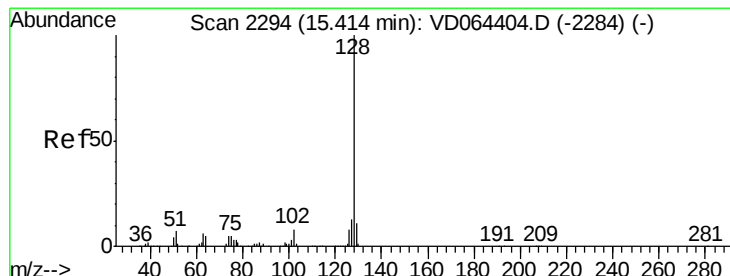
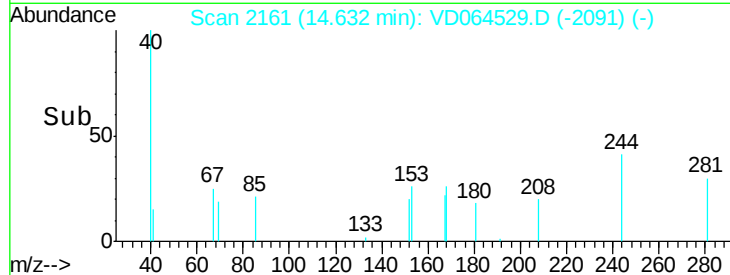
Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time-->



#95

Naphthalene

Concen: 9.408 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD064529.D

Acq: 16 Dec 2019 17:58

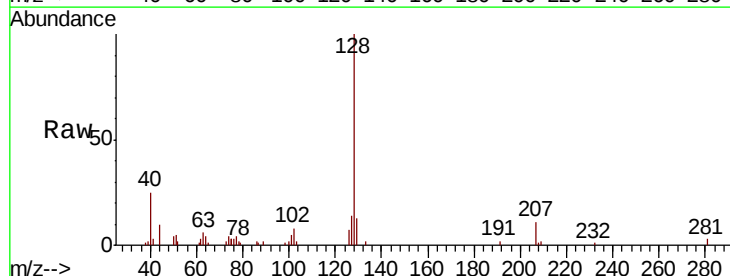
Tgt Ion: 128 Resp: 26771

Ion Ratio Lower Upper

128 100

127 13.6 10.5 15.7

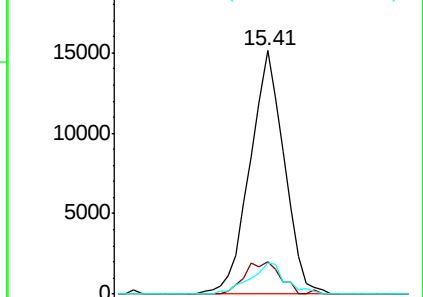
129 13.2 8.8 13.2



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-->

