

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121719\
 Data File : VD064545.D
 Acq On : 17 Dec 2019 15:10
 Operator : VA/SY
 Sample : K6324-05
 Misc : 7.37G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EP-13

Quant Time: Dec 18 00:48:32 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	7.98	168	16779	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	25805	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	25015	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	13520	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	8735	57.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.02%	
35) Dibromofluoromethane	7.92	113	8120	49.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.88%	
50) Toluene-d8	10.34	98	28544	46.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.22%	
62) 4-Bromofluorobenzene	12.63	95	10857	55.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.32%	

Target Compounds

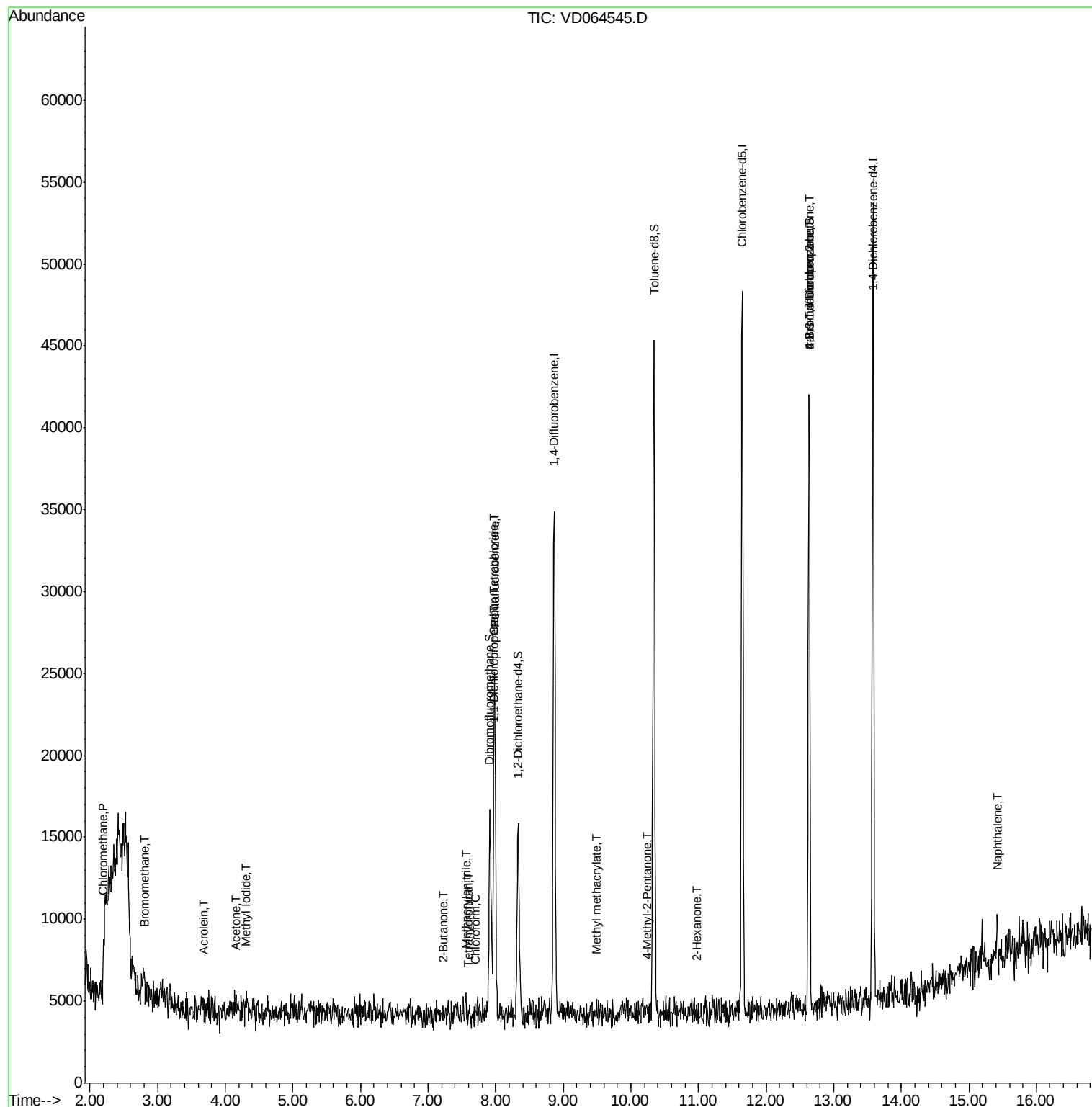
						Qvalue
3) Chloromethane	2.20	50	611	3.186	ug/l	96
5) Bromomethane	2.80	94	1010	6.169	ug/l #	80
10) Methyl Iodide	4.31	142	512	3.072	ug/l #	56
13) Acrolein	3.69	56	69	5.233	ug/l #	14
16) Acetone	4.17	43	595	19.387	ug/l #	47
20) Methylene Chloride	4.97	84	72	Below Cal	#	41
25) 2-Butanone	7.23	43	65	1.498	ug/l #	49
29) Tetrahydrofuran	7.59	42	60	2.173	ug/l #	33
30) Chloroform	7.71	83	438	1.509	ug/l #	66
31) Cyclohexane	7.97	56	139	Below Cal	#	71
36) 1,1-Dichloropropene	7.97	75	909	3.724	ug/l #	40
38) Carbon Tetrachloride	7.97	117	1562	6.063	ug/l #	11
41) Methacrylonitrile	7.56	41	225	3.788	ug/l #	47
48) Methyl methacrylate	9.49	41	155	1.663	ug/l #	1
51) 4-Methyl-2-Pentanone	10.23	43	353	3.503	ug/l #	37
59) 2-Hexanone	10.98	43	162	2.317	ug/l #	26
76) 1,2,3-Trichloropropane	12.64	75	6065	54.549	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	6065	118.946	ug/l #	10
95) Naphthalene	15.42	128	1185	2.380	ug/l #	77

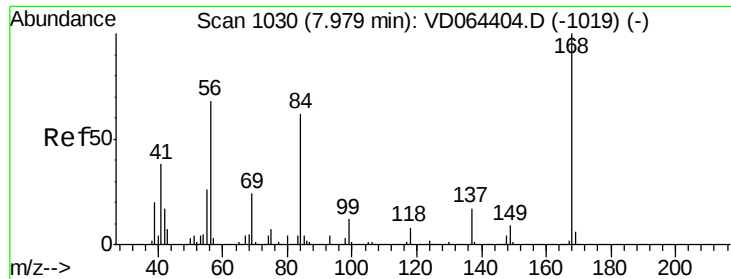
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Nov 29 07:18:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

Instrument :

MSVOA_D

ClientSampleId :

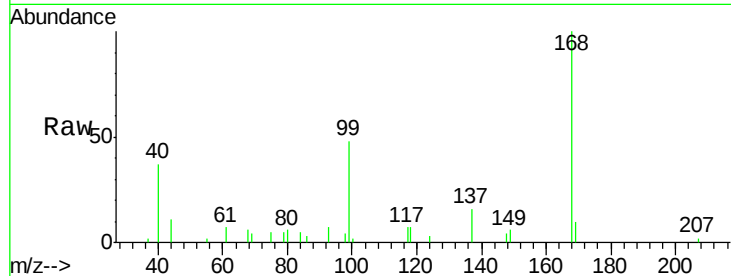
EP-13

Tot Ion:168 Resp: 16779

Ion Ratio Lower Upper

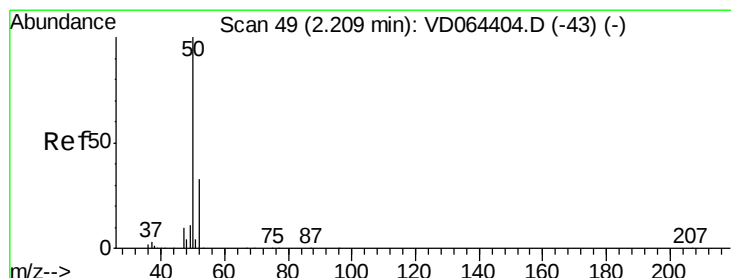
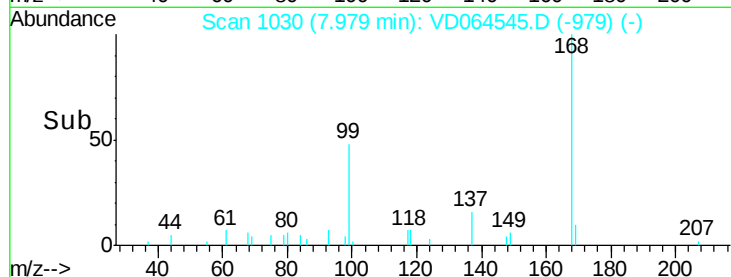
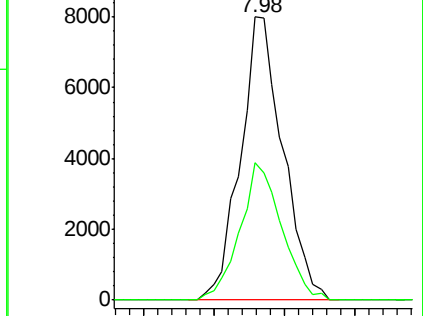
168 100

99 48.5 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 3.186 ug/l

RT: 2.20 min Scan# 47

Delta R.T. -0.01 min

Lab File: VD064545.D

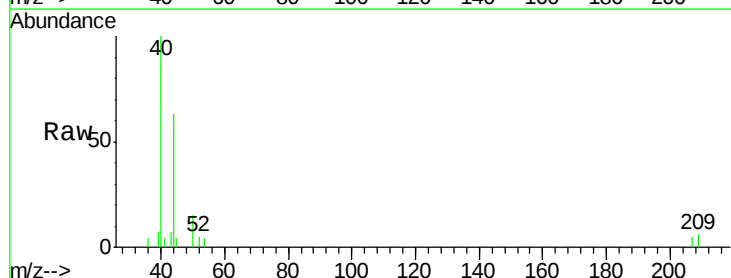
Acq: 17 Dec 2019 15:10

Tgt Ion: 50 Resp: 611

Ion Ratio Lower Upper

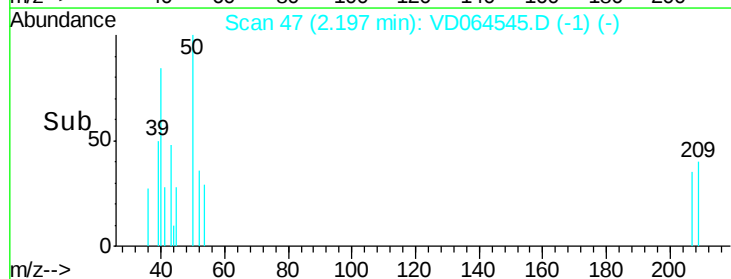
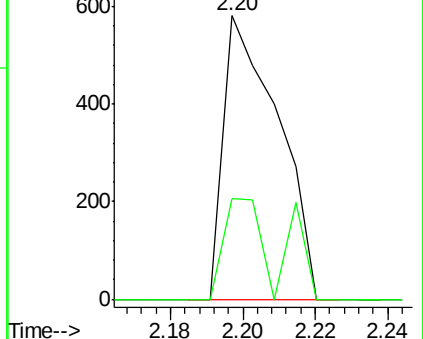
50 100

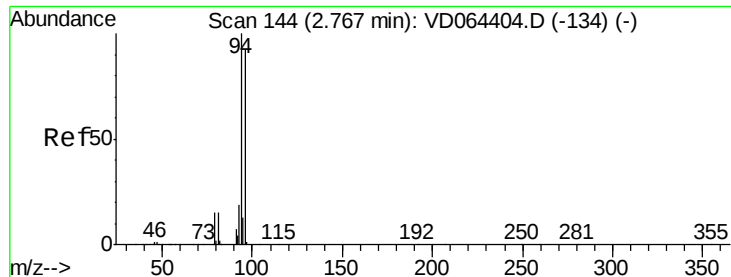
52 35.6 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 6.169 ug/l

RT: 2.80 min Scan# 150

Delta R.T. 0.04 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

Instrument :

MSVOA_D

ClientSampleId :

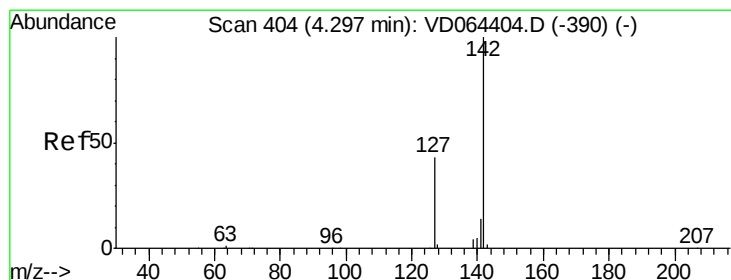
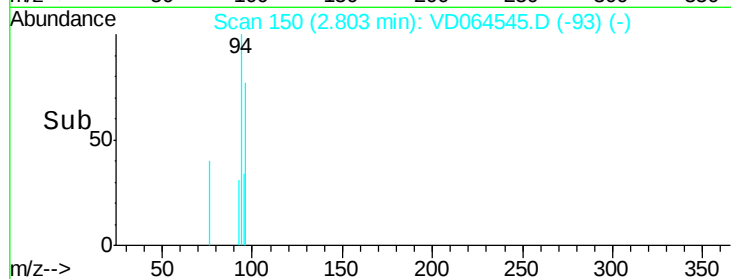
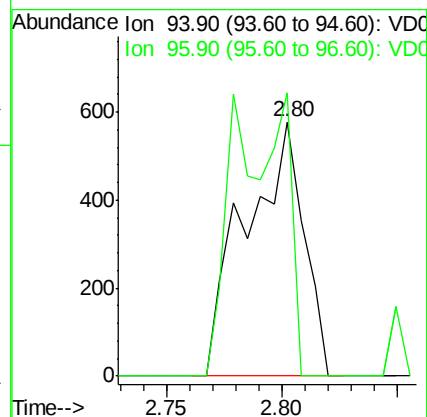
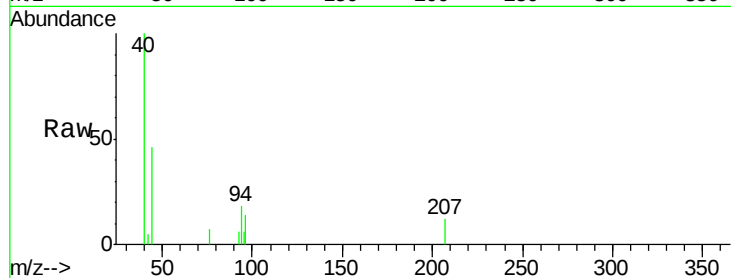
EP-13

Tot Ion: 94 Resp: 1010

Ion Ratio Lower Upper

94 100

96 111.2 73.6 110.4#



#10

Methyl Iodide

Concen: 3.072 ug/l

RT: 4.31 min Scan# 407

Delta R.T. 0.02 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

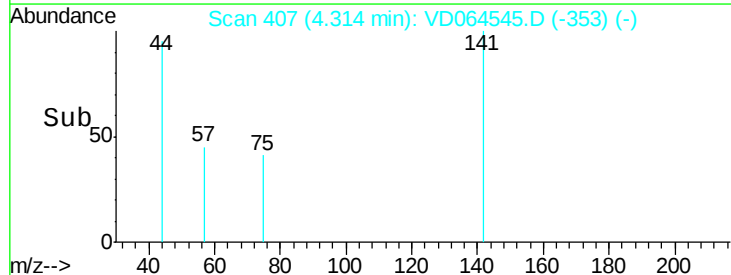
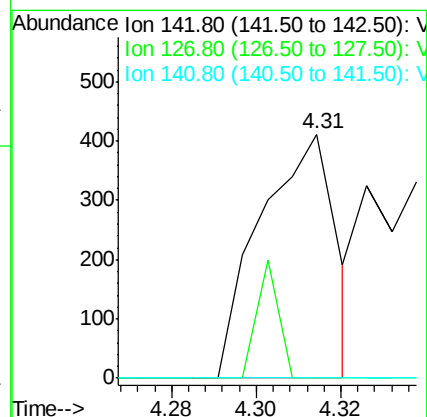
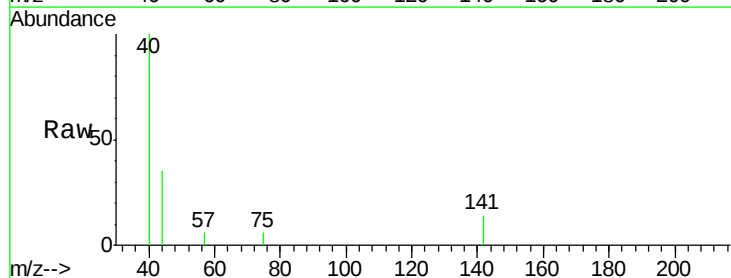
Tgt Ion: 142 Resp: 512

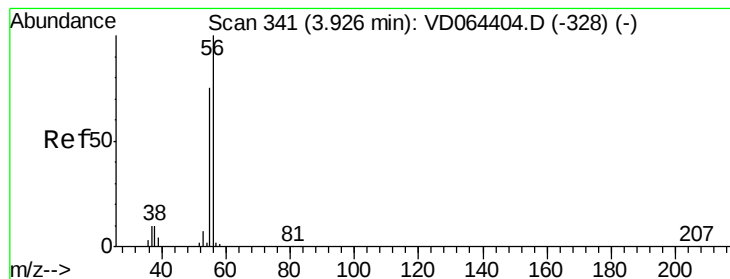
Ion Ratio Lower Upper

142 100

127 13.7 35.3 52.9#

141 0.0 11.6 17.4#





#13

Acrolein

Concen: 5.233 ug/l

RT: 3.69 min Scan# 300

Delta R.T. -0.24 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

Instrument :

MSVOA_D

ClientSampleId :

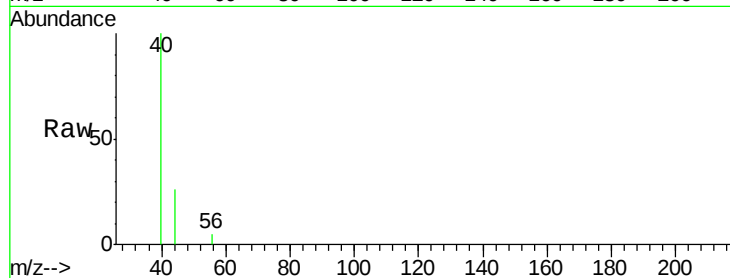
EP-13

Tot Ion: 56 Resp: 69

Ion Ratio Lower Upper

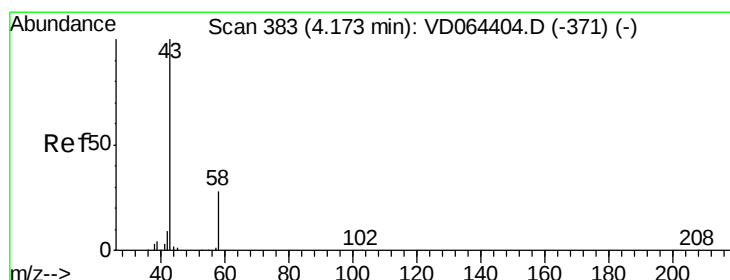
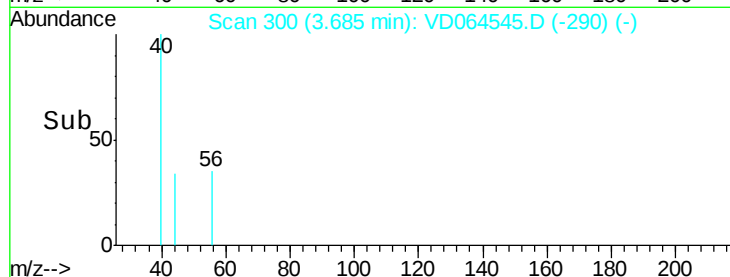
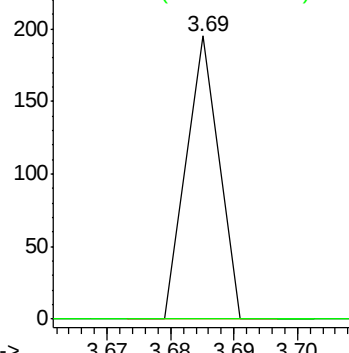
56 100

55 0.0 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: 19.387 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064545.D

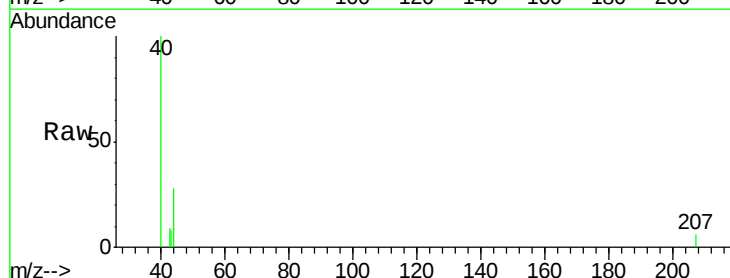
Acq: 17 Dec 2019 15:10

Tgt Ion: 43 Resp: 595

Ion Ratio Lower Upper

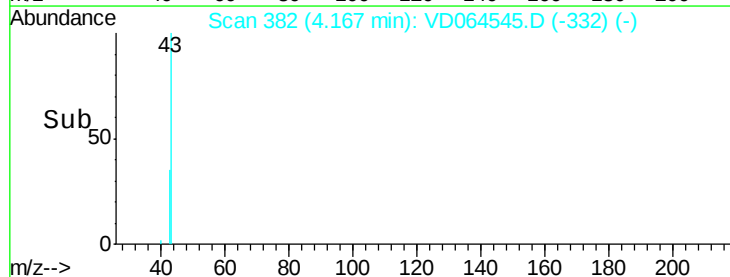
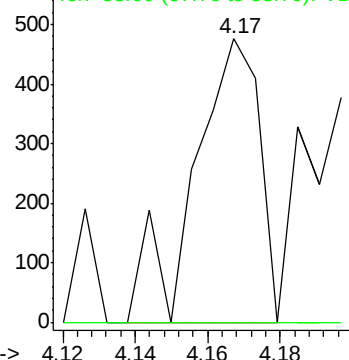
43 100

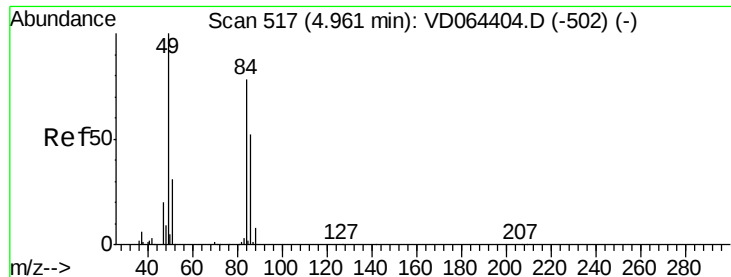
58 0.0 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

Instrument :
MSVOA_D
ClientSampleId :
EP-13

Tot Ion: 84 Resp: 72

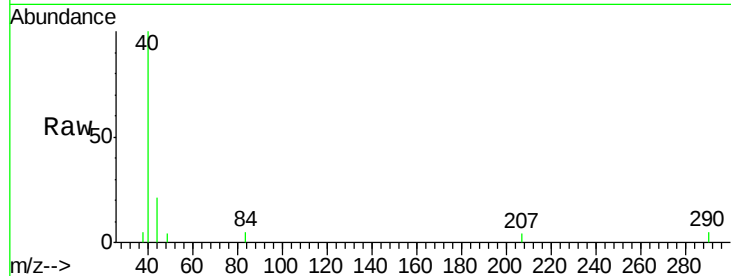
Ion Ratio Lower Upper

84 100

49 76.0 102.6 153.8#

51 0.0 32.0 48.0#

86 0.0 53.4 80.0#

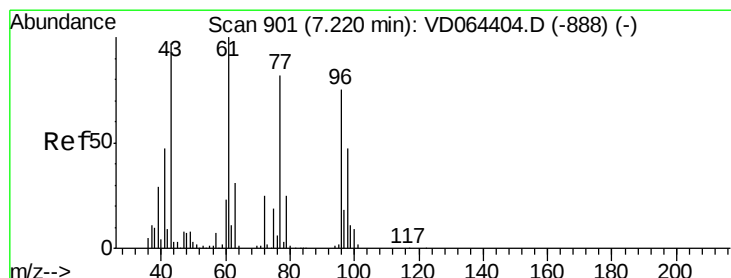
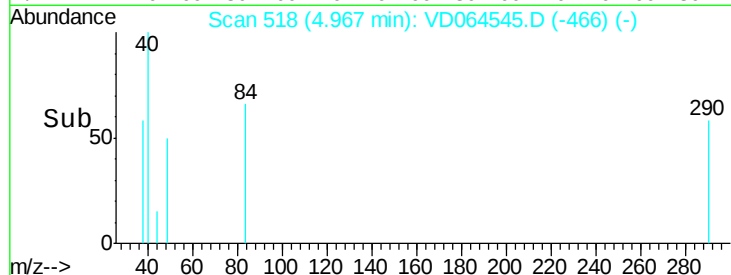
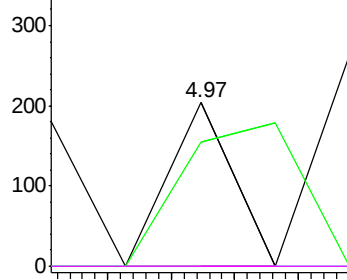


Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#25

2-Butanone

Concen: 1.498 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD064545.D

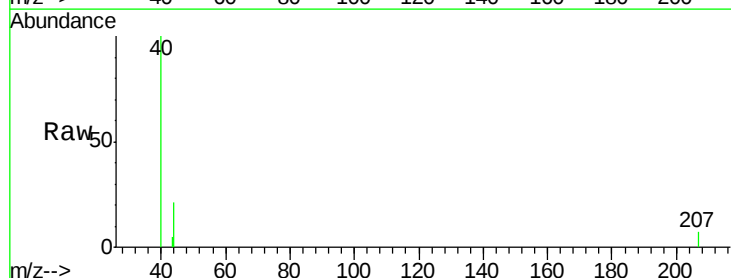
Acq: 17 Dec 2019 15:10

Tgt Ion: 43 Resp: 65

Ion Ratio Lower Upper

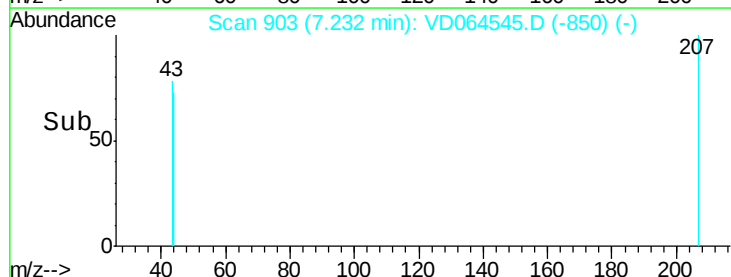
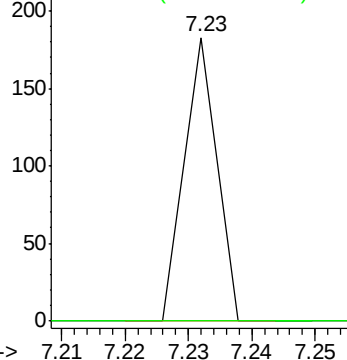
43 100

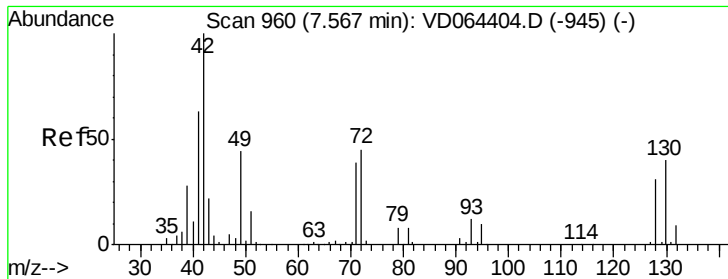
72 0.0 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

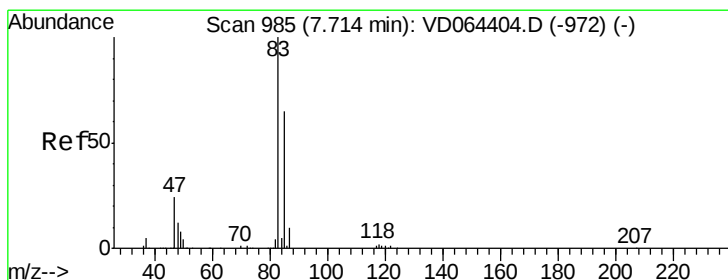
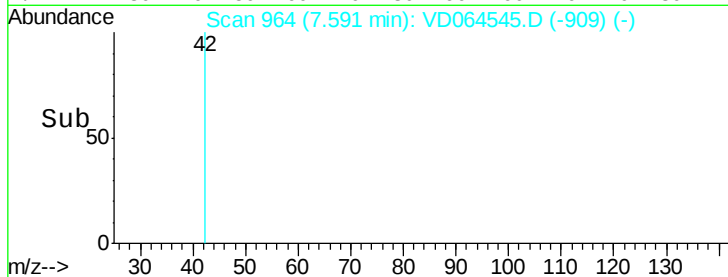
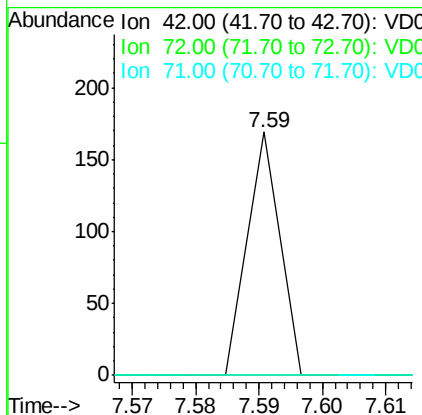
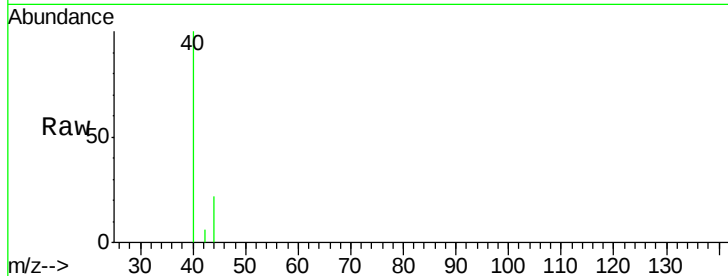




#29
Tetrahydrofuran
Concen: 2.173 ug/l
RT: 7.59 min Scan# 964
Delta R.T. 0.02 min
Lab File: VD064545.D
Acq: 17 Dec 2019 15:10

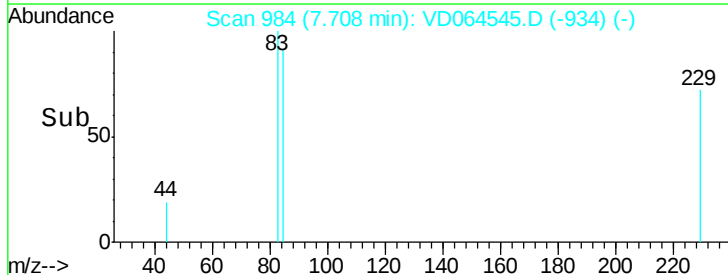
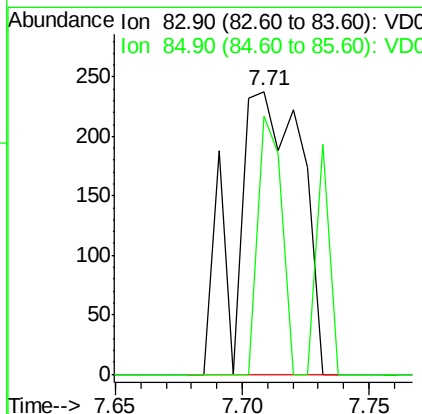
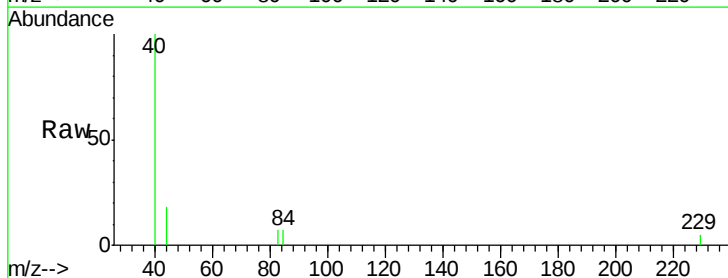
Instrument :
MSVOA_D
ClientSampleId :
EP-13

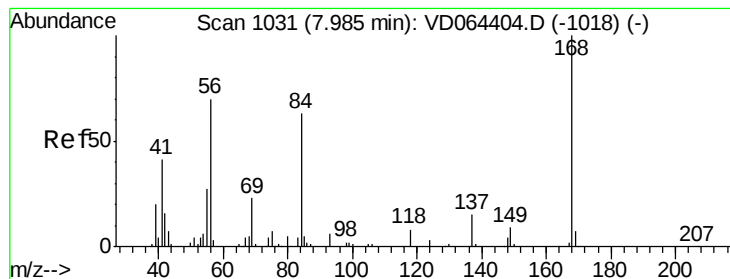
Tot Ion: 42 Resp: 60
Ion Ratio Lower Upper
42 100
72 0.0 35.8 53.8#
71 0.0 32.7 49.1#



#30
Chloroform
Concen: 1.509 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD064545.D
Acq: 17 Dec 2019 15:10

Tgt Ion: 83 Resp: 438
Ion Ratio Lower Upper
83 100
85 91.2 51.8 77.6#





#31

Cyclohexane

Concen: Below Cal

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

Instrument :

MSVOA_D

ClientSampleID :

EP-13

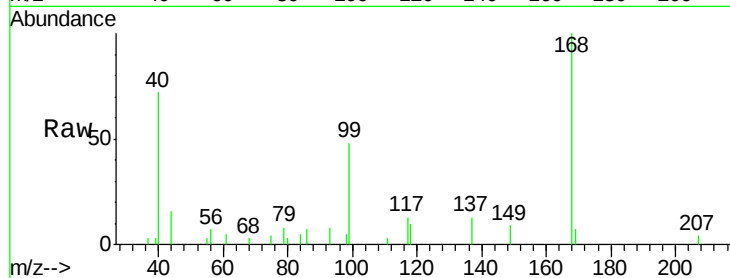
Tot Ion: 56 Resp: 139

Ion Ratio Lower Upper

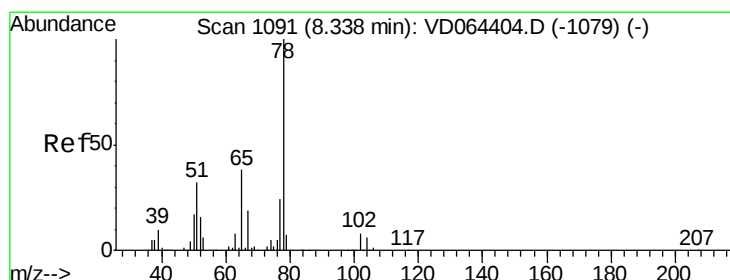
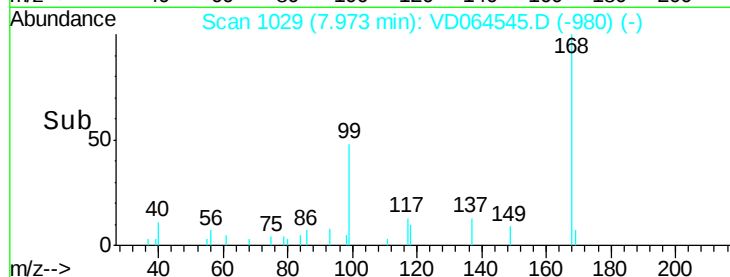
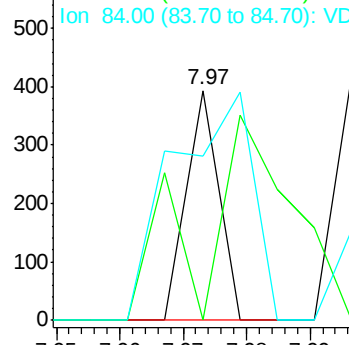
56 100

69 0.0 26.2 39.4#

84 71.6 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: 57.515 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD064545.D

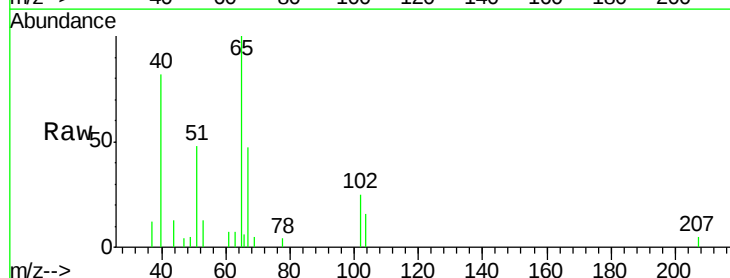
Acq: 17 Dec 2019 15:10

Tgt Ion: 65 Resp: 8735

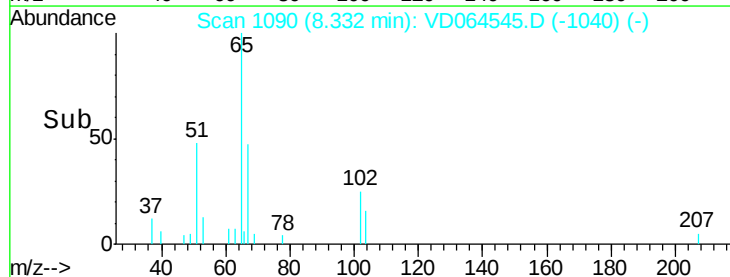
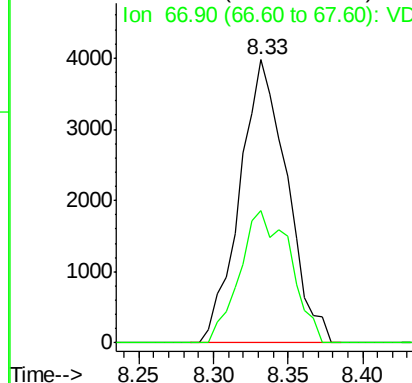
Ion Ratio Lower Upper

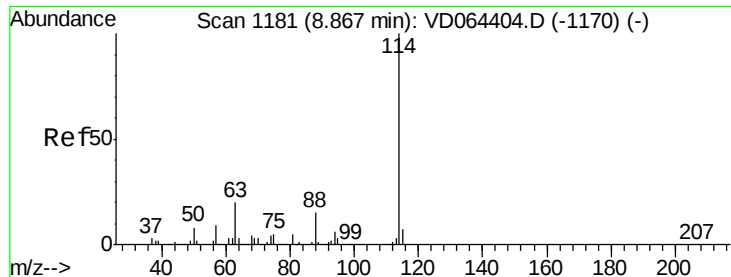
65 100

67 50.2 0.0 102.0



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

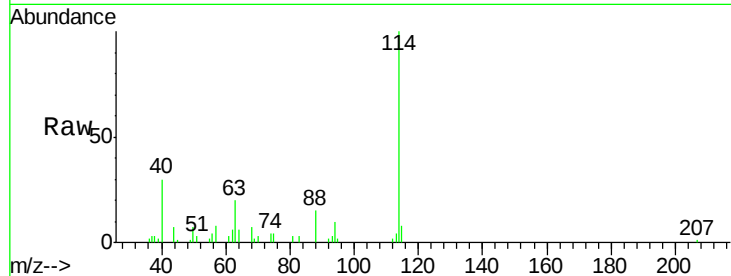




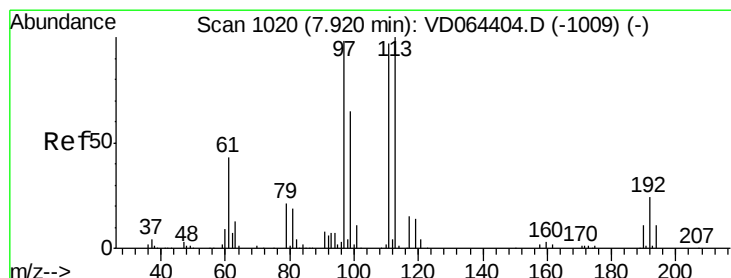
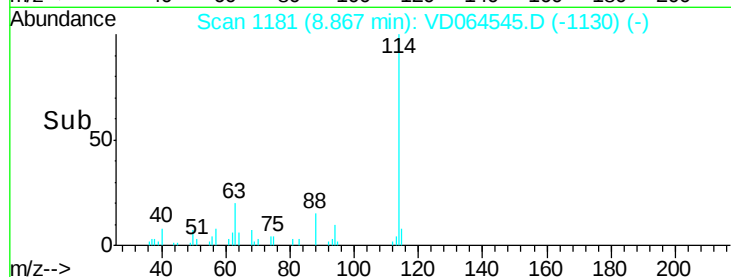
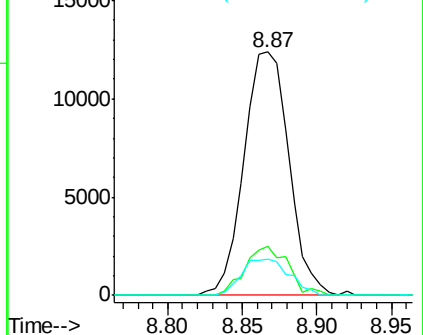
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064545.D
 Acq: 17 Dec 2019 15:10

Instrument :
 MSVOA_D
 ClientSampleId :
 EP-13

Tot Ion:114 Resp: 25805
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.0
 88 14.9 0.0 29.2

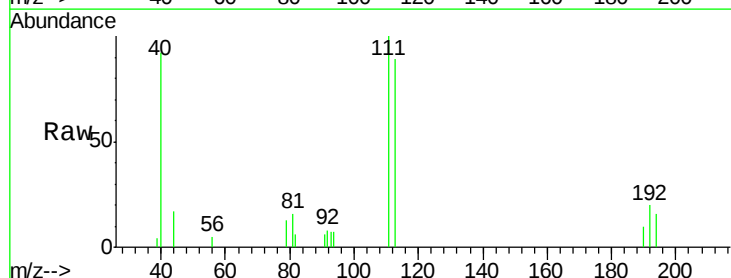


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

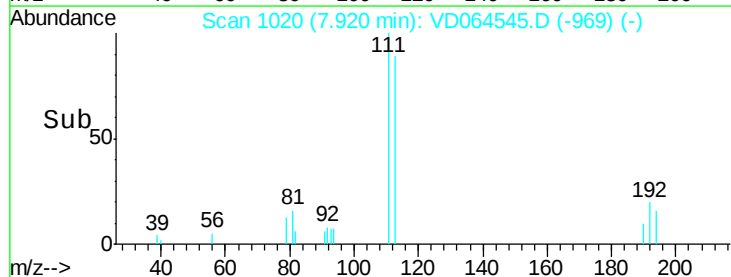
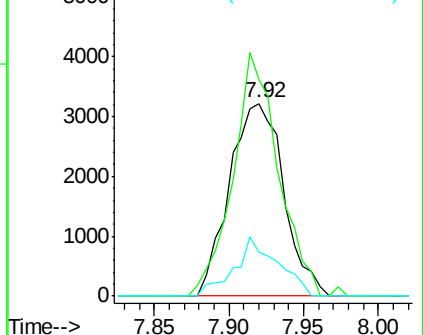


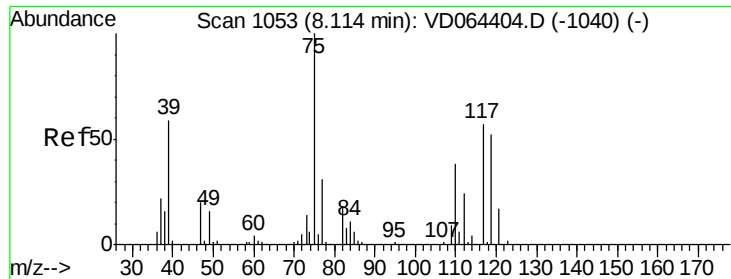
#35
 Dibromofluoromethane
 Concen: 49.943 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064545.D
 Acq: 17 Dec 2019 15:10

Tgt Ion:113 Resp: 8120
 Ion Ratio Lower Upper
 113 100
 111 105.4 79.4 119.2
 192 24.5 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: 3.724 ug/l

RT: 7.97 min Scan# 1028

Delta R.T. -0.15 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

Instrument :

MSVOA_D

ClientSampleId :

EP-13

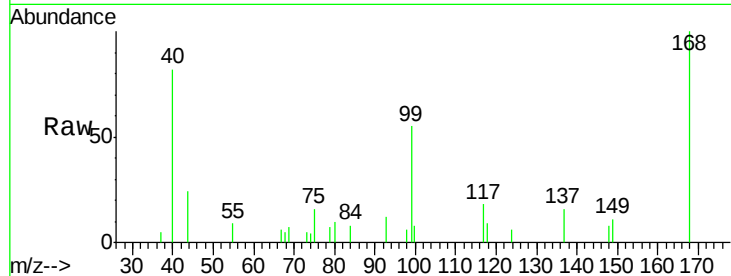
Tot Ion: 75 Resp: 909

Ion Ratio Lower Upper

75 100

110 0.0 18.6 55.8#

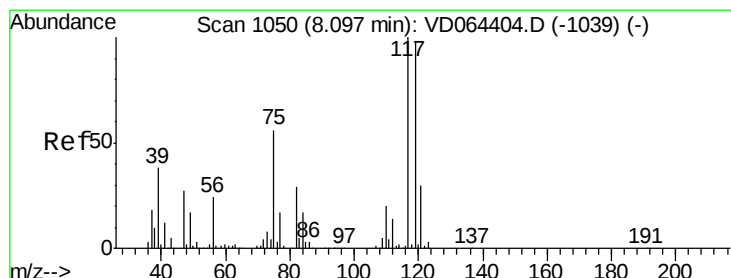
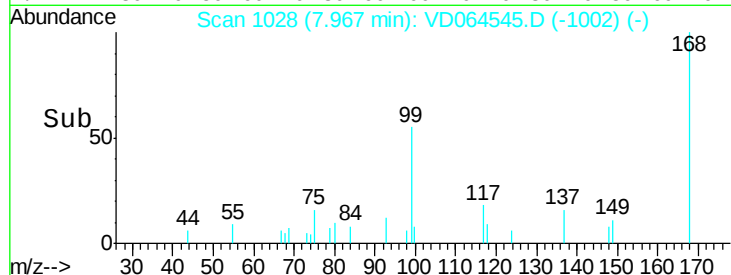
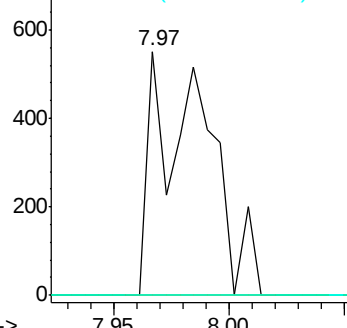
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V



#38

Carbon Tetrachloride

Concen: 6.063 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

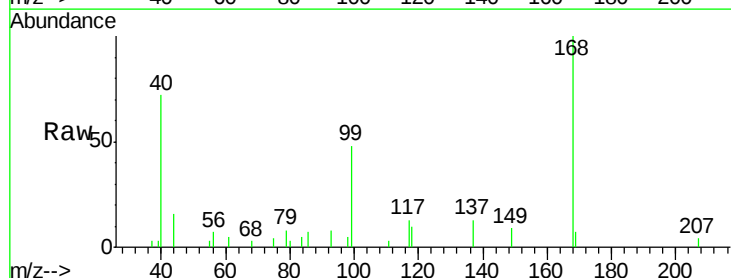
Tgt Ion: 117 Resp: 1562

Ion Ratio Lower Upper

117 100

119 0.0 78.8 118.2#

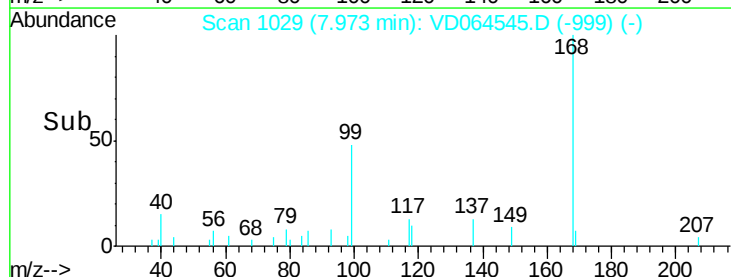
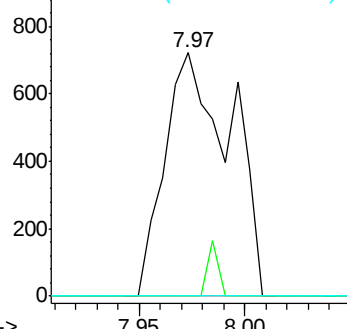
121 0.0 24.2 36.2#

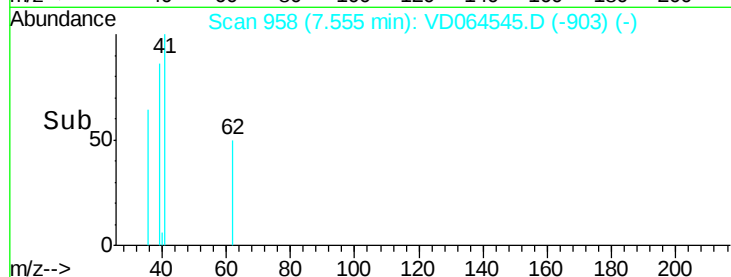
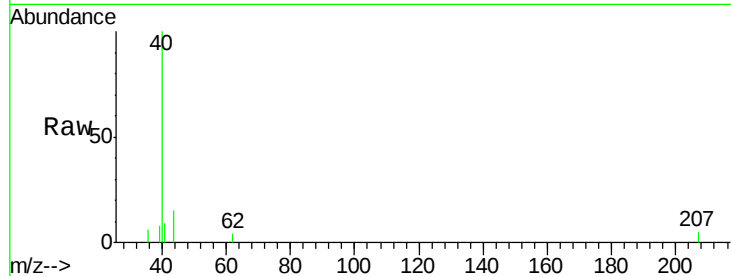
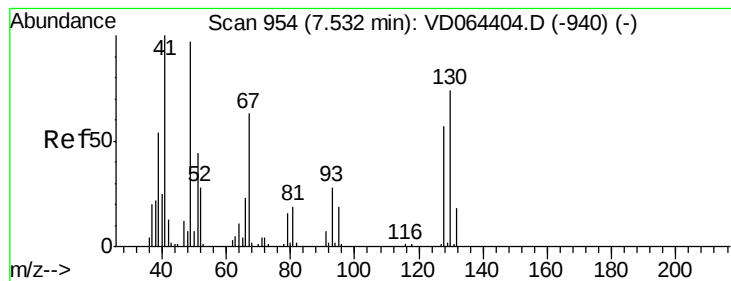


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 3.788 ug/l

RT: 7.56 min Scan# 958

Delta R.T. 0.02 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

Instrument :

MSVOA_D

ClientSampled :

EP-13

Tot Ion: 41 Resp: 225

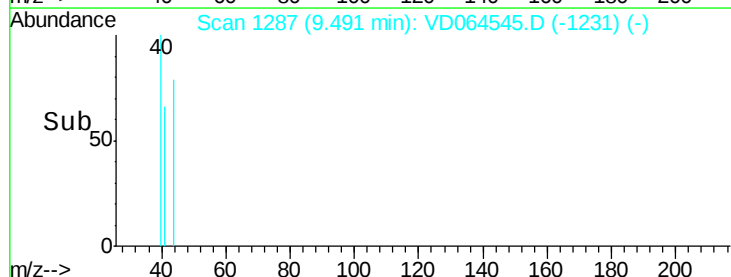
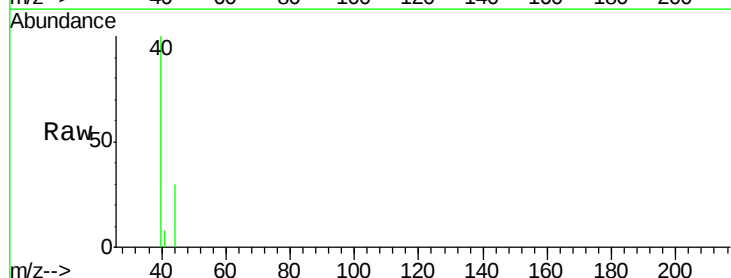
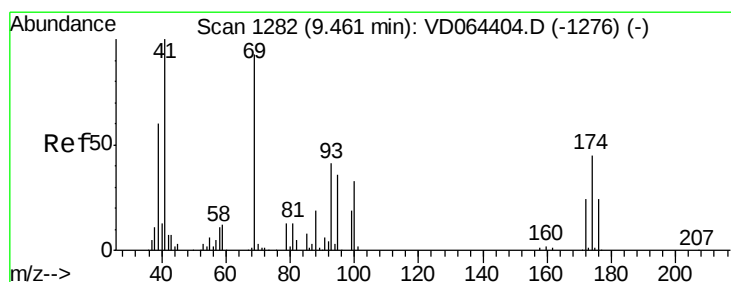
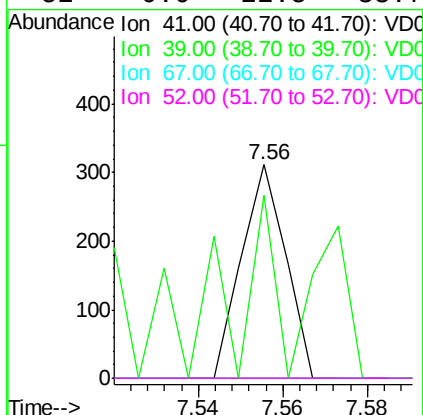
Ion Ratio Lower Upper

41 100

39 41.8 44.6 67.0#

67 0.0 50.9 76.3#

52 0.0 22.5 33.7#



#48

Methyl methacrylate

Concen: 1.663 ug/l

RT: 9.49 min Scan# 1287

Delta R.T. 0.03 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

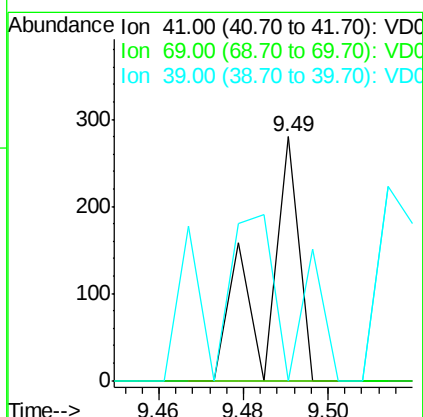
Tgt Ion: 41 Resp: 155

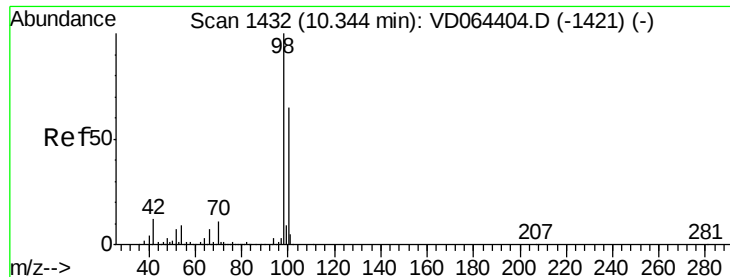
Ion Ratio Lower Upper

41 100

69 0.0 72.0 108.0#

39 158.7 55.2 82.8#





#50

Toluene-d8

Concen: 46.607 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

Instrument :

MSVOA_D

ClientSampleId :

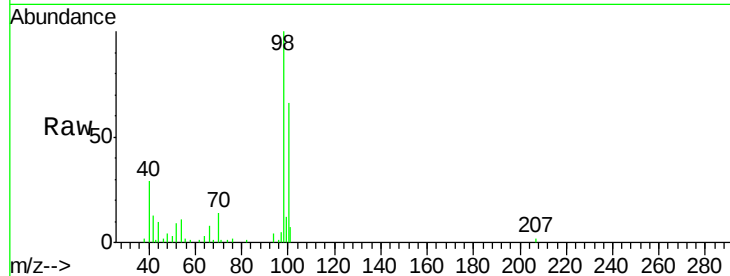
EP-13

Tot Ion: 98 Resp: 28544

Ion Ratio Lower Upper

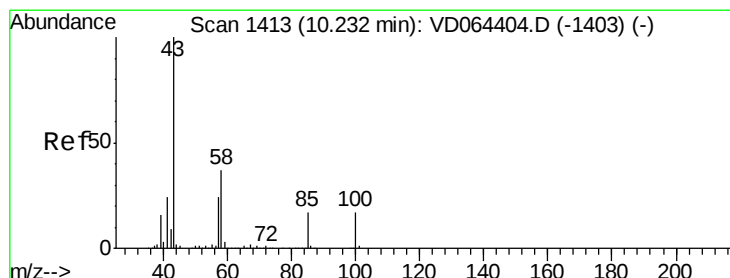
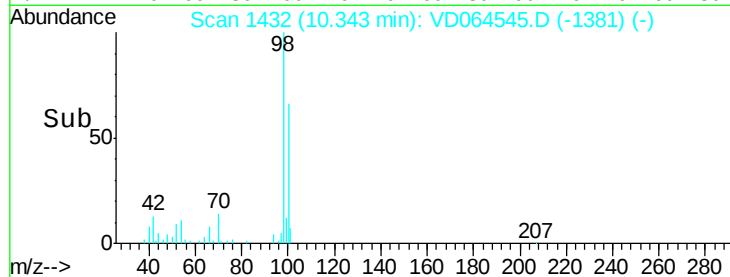
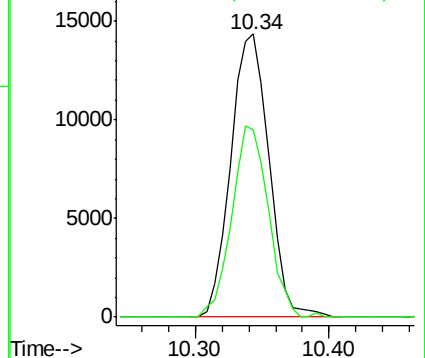
98 100

100 64.1 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 3.503 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD064545.D

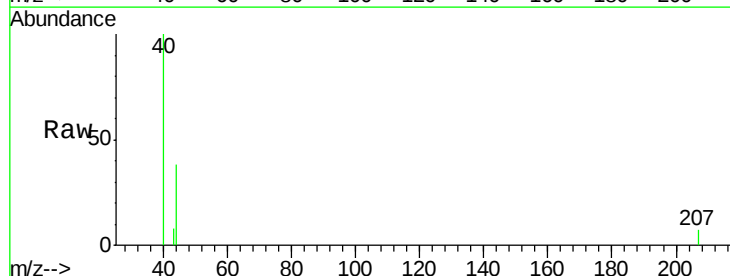
Acq: 17 Dec 2019 15:10

Tgt Ion: 43 Resp: 353

Ion Ratio Lower Upper

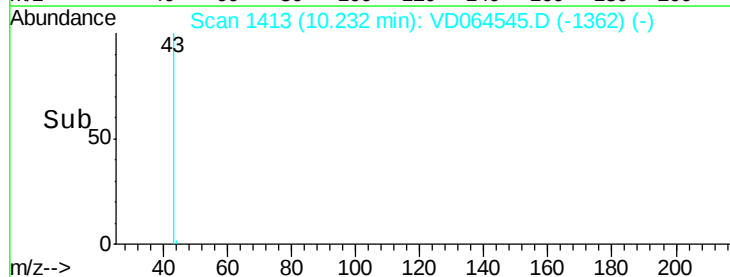
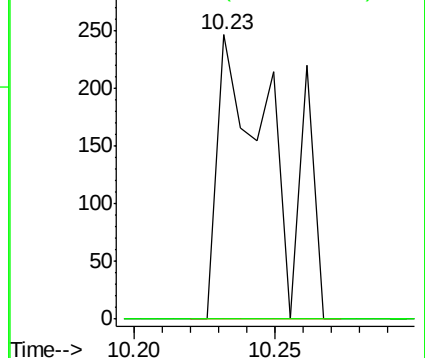
43 100

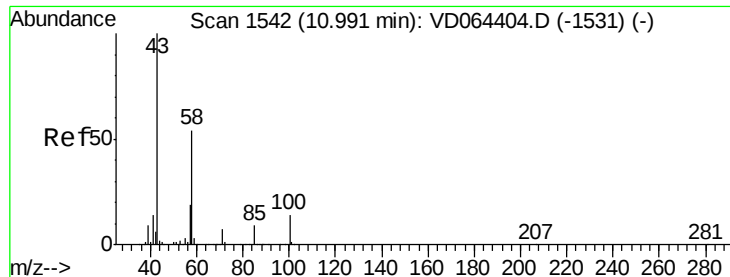
58 0.0 30.6 46.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

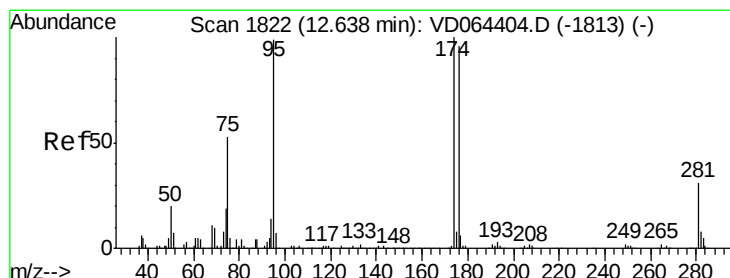
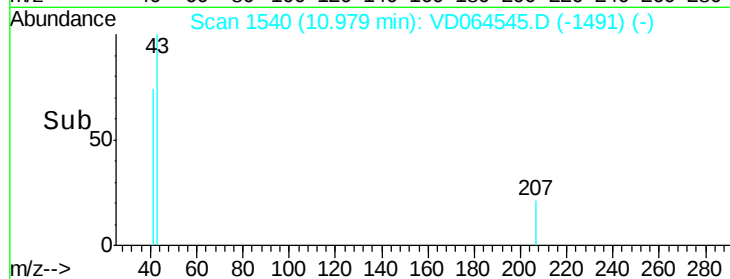
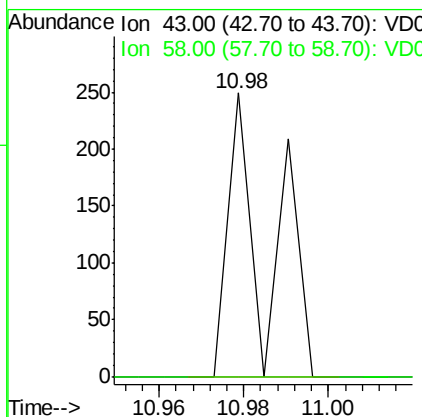
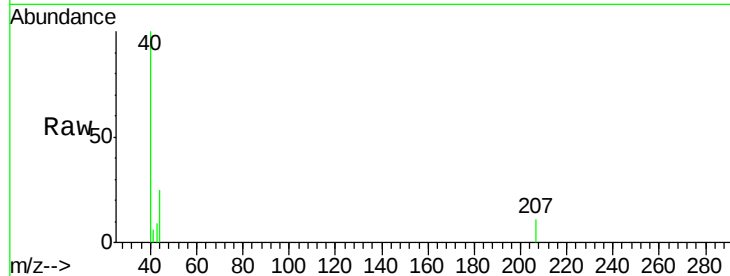




#59
2-Hexanone
Concen: 2.317 ug/l
RT: 10.98 min Scan# 1540
Delta R.T. -0.01 min
Lab File: VD064545.D
Acq: 17 Dec 2019 15:10

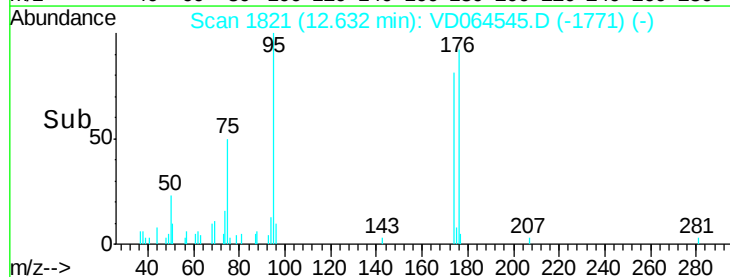
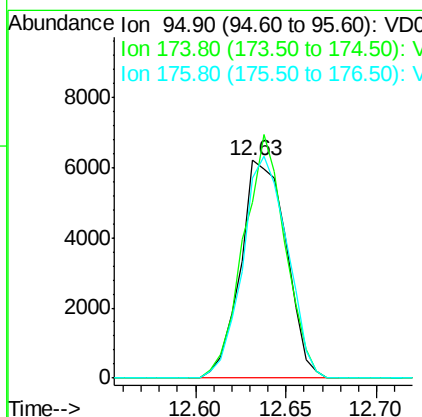
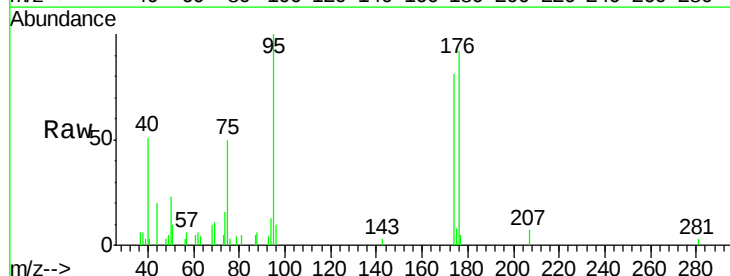
Instrument :
MSVOA_D
ClientSampled :
EP-13

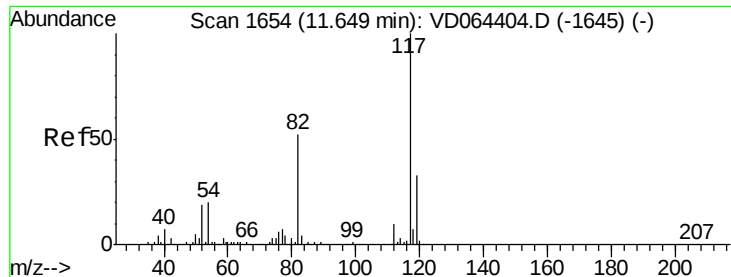
Tot Ion: 43 Resp: 162
Ion Ratio Lower Upper
43 100
58 0.0 26.3 78.8#



#62
4-Bromofluorobenzene
Concen: 55.162 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.01 min
Lab File: VD064545.D
Acq: 17 Dec 2019 15:10

Tgt Ion: 95 Resp: 10857
Ion Ratio Lower Upper
95 100
174 102.2 0.0 197.2
176 99.7 0.0 189.6

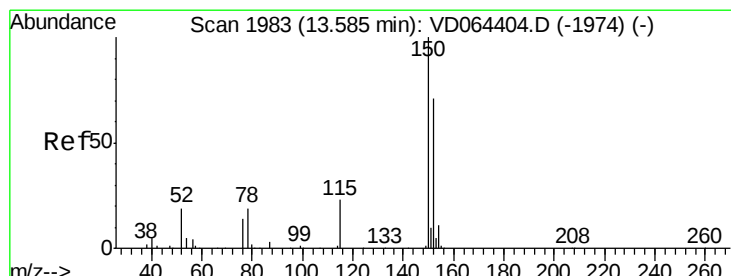
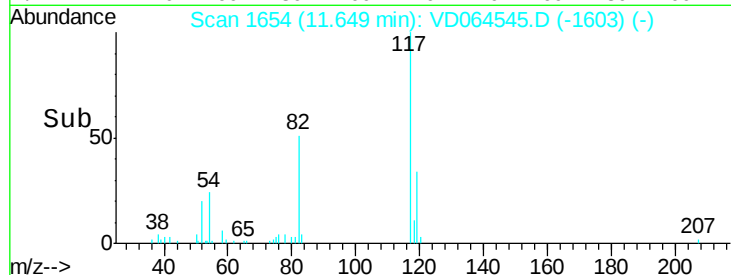
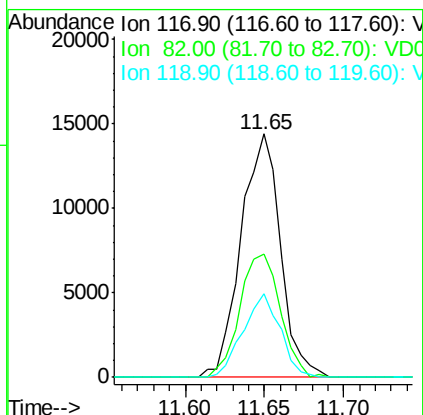
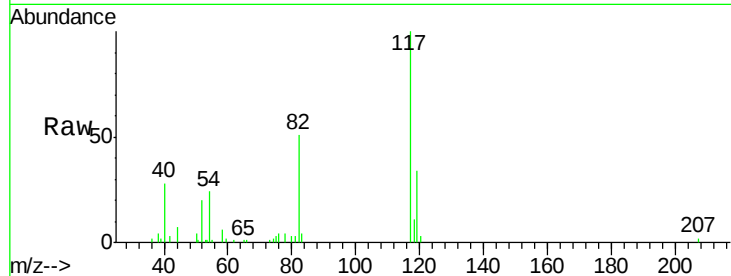




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064545.D
Acq: 17 Dec 2019 15:10

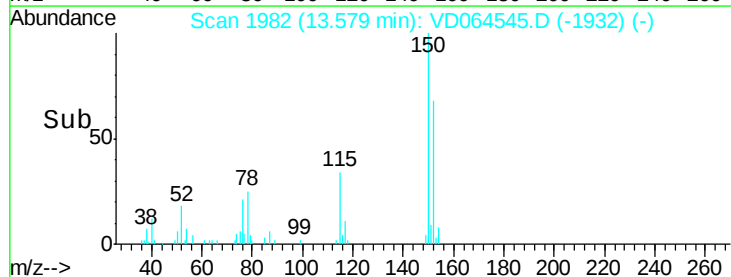
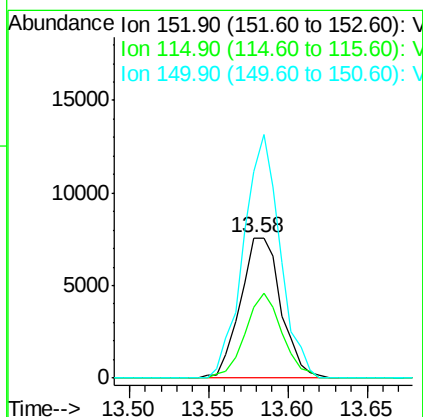
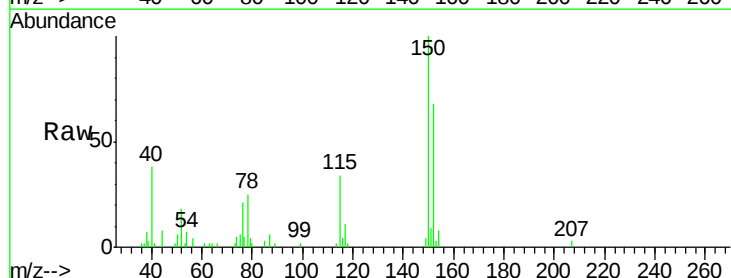
Instrument :
MSVOA_D
ClientSampleId :
EP-13

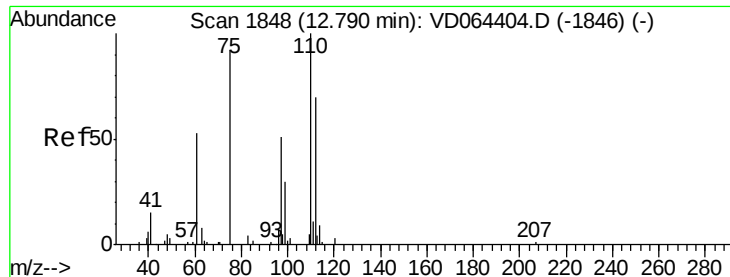
Tot Ion:117 Resp: 25015
Ion Ratio Lower Upper
117 100
82 50.7 41.4 62.2
119 34.1 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD064545.D
Acq: 17 Dec 2019 15:10

Tgt Ion:152 Resp: 13520
Ion Ratio Lower Upper
152 100
115 54.8 26.7 80.1
150 156.1 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 54.549 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

Instrument :

MSVOA_D

ClientSampleId :

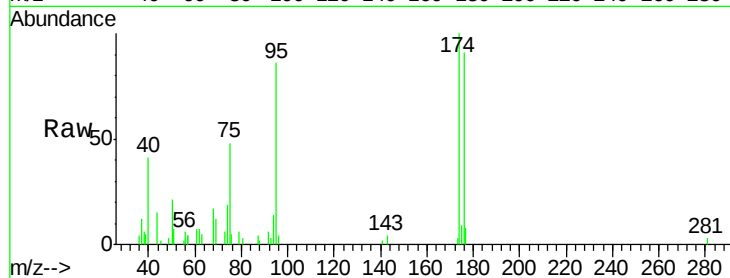
EP-13

Tot Ion: 75 Resp: 6065

Ion Ratio Lower Upper

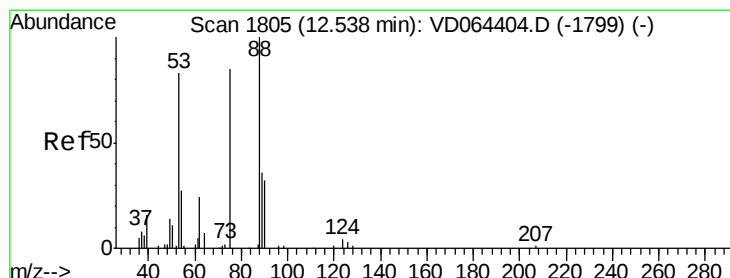
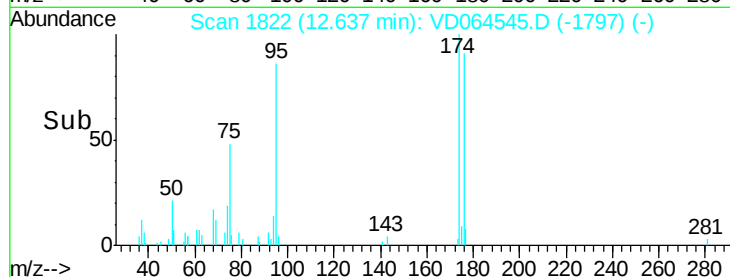
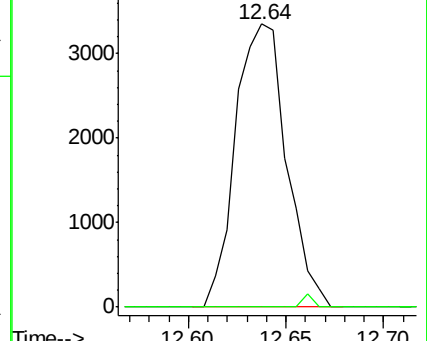
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 118.946 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

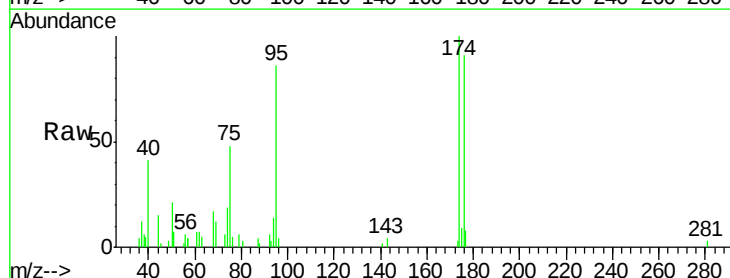
Tgt Ion: 75 Resp: 6065

Ion Ratio Lower Upper

75 100

53 1.2 81.0 121.6#

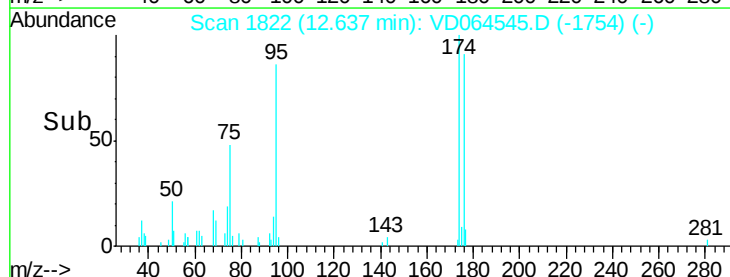
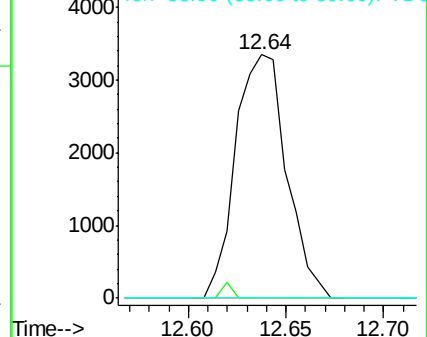
89 0.0 38.5 57.7#

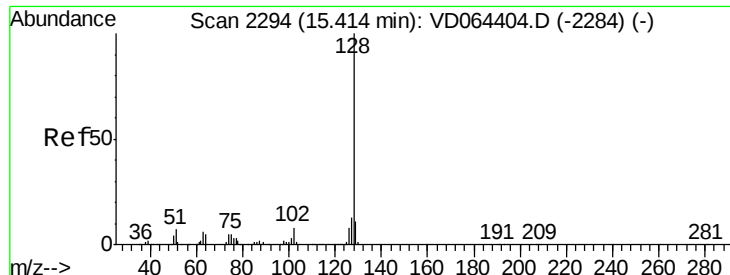


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#95

Naphthalene

Concen: 2.380 ug/l

RT: 15.42 min Scan# 2295

Delta R.T. 0.01 min

Lab File: VD064545.D

Acq: 17 Dec 2019 15:10

Instrument :

MSVOA_D

ClientSampleId :

EP-13

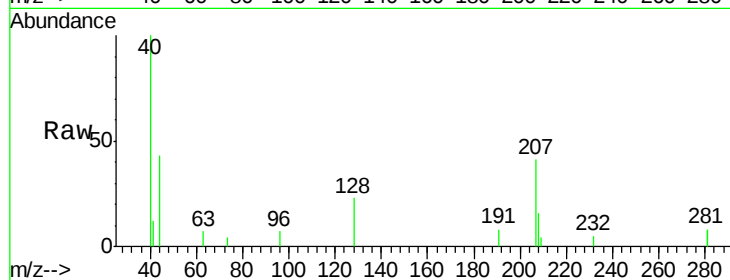
Tot Ion:128 Resp: 1185

Ion Ratio Lower Upper

128 100

127 5.7 10.5 15.7#

129 0.0 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

