

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102820\
 Data File : VD067427.D
 Acq On : 28 Oct 2020 12:09
 Operator : VA/SY
 Sample : VD1028SBL01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1028SBL01

Quant Time: Oct 29 00:43:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	359626	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	583829	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	562028	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	279338	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	179480	49.82	ug/l	0.00
Spiked Amount						
			Recovery	=	99.64%	
35) Dibromofluoromethane	7.92	113	186829	48.09	ug/l	0.00
Spiked Amount						
			Recovery	=	96.18%	
50) Toluene-d8	10.34	98	680283	48.38	ug/l	0.00
Spiked Amount						
			Recovery	=	96.76%	
62) 4-Bromofluorobenzene	12.64	95	246002	50.31	ug/l	0.00
Spiked Amount						
			Recovery	=	100.62%	

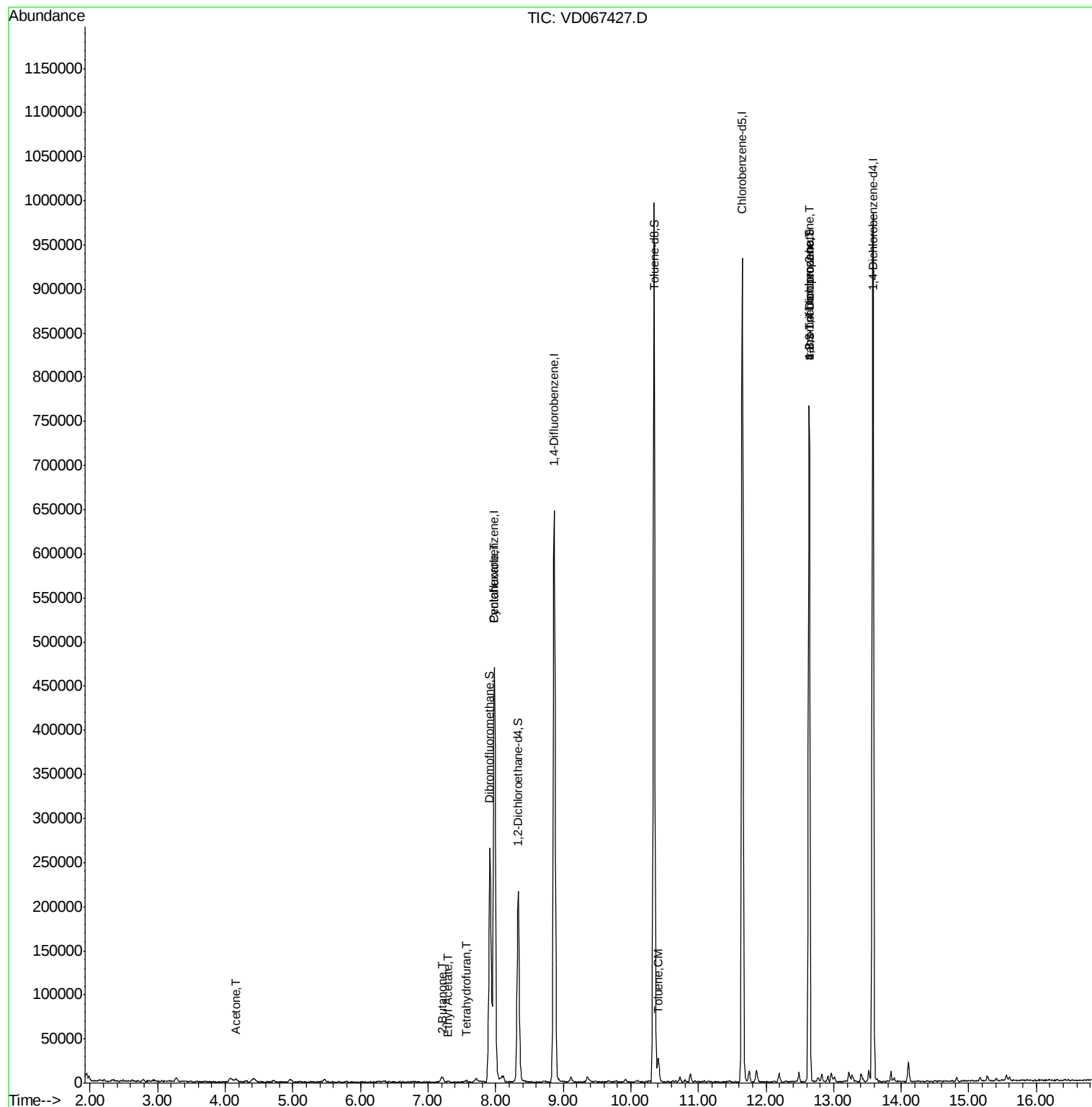
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	1728	Below Cal		74
5) Bromomethane	2.77	94	1559	Below Cal	#	23
11) Tert butyl alcohol	5.23	59	53	Below Cal	#	81
16) Acetone	4.16	43	6587	13.054	ug/l	96
20) Methylene Chloride	4.95	84	1216	Below Cal	#	55
25) 2-Butanone	7.21	43	950	1.652	ug/l	# 45
29) Tetrahydrofuran	7.57	42	408	1.276	ug/l	# 60
31) Cyclohexane	7.97	56	8407	2.026	ug/l	# 46
37) Ethyl Acetate	7.28	43	2138	1.469	ug/l	# 66
49) 1,4-Dioxane	9.47	88	53	Below Cal	#	27
52) Toluene	10.41	92	9618	1.040	ug/l	83
76) 1,2,3-Trichloropropane	12.64	75	125280	64.708	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.64	75	125280	146.739	ug/l	# 10

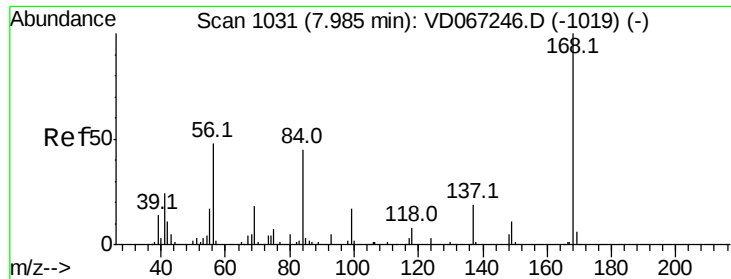
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Oct 19 19:13:29 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067427.D

Acq: 28 Oct 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

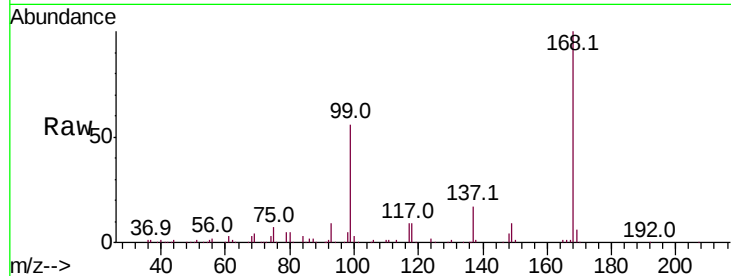
VD1028SBL01

Tot Ion:168 Resp: 359626

Ion Ratio Lower Upper

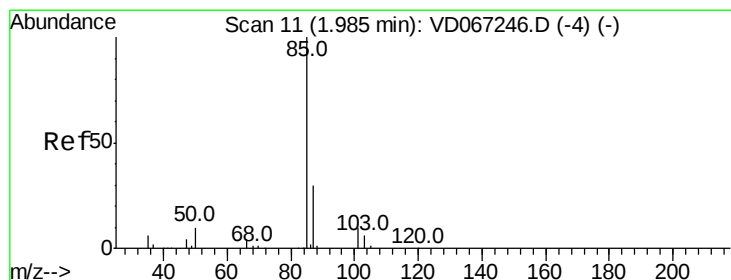
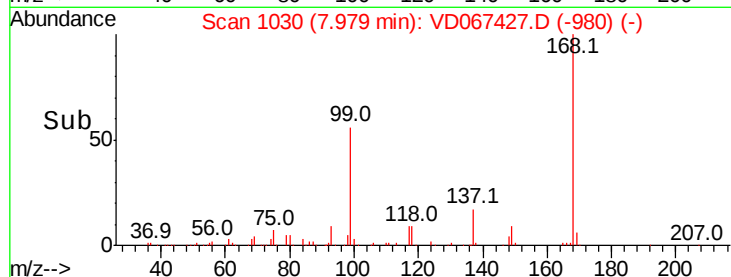
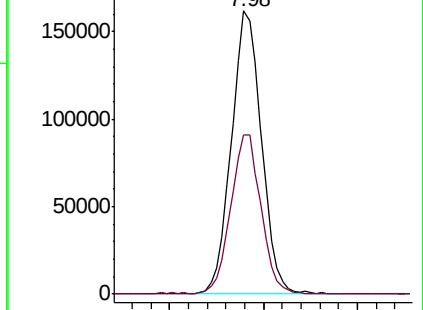
168 100

99 56.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067427.D

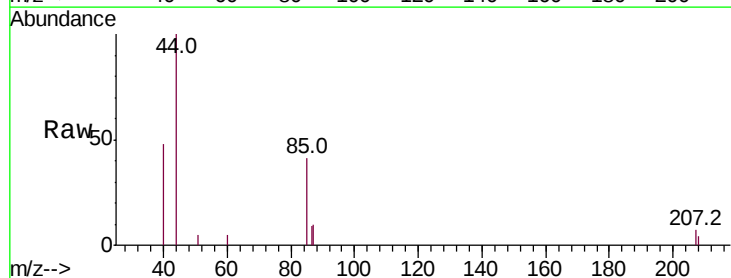
Acq: 28 Oct 2020 12:09

Tgt Ion: 85 Resp: 1728

Ion Ratio Lower Upper

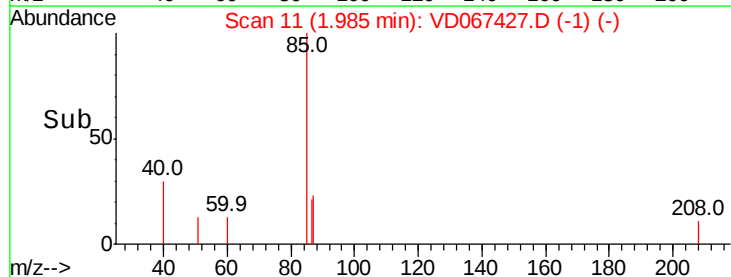
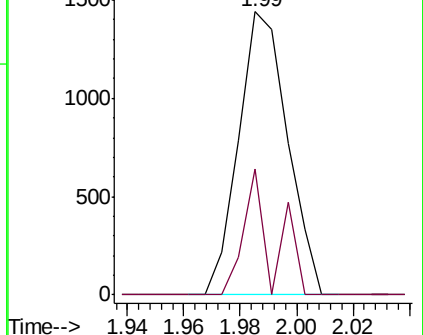
85 100

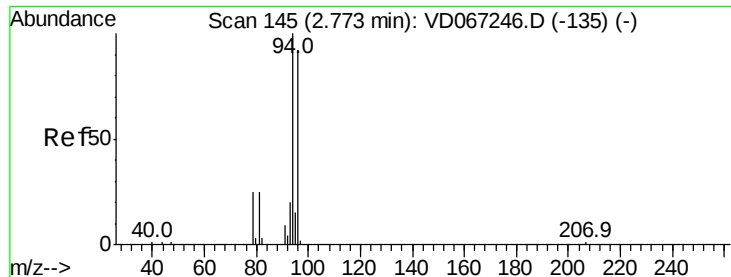
87 44.3 15.2 45.6



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067427.D

Acq: 28 Oct 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

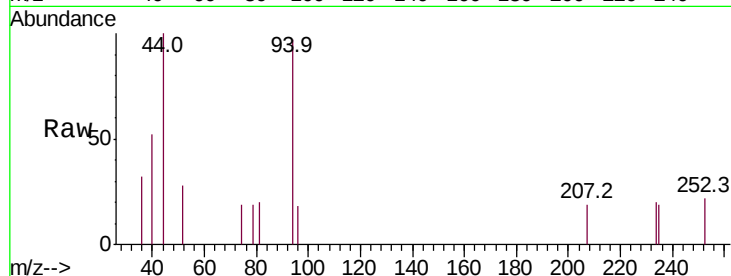
VD1028SBL01

Tot Ion: 94 Resp: 1559

Ion Ratio Lower Upper

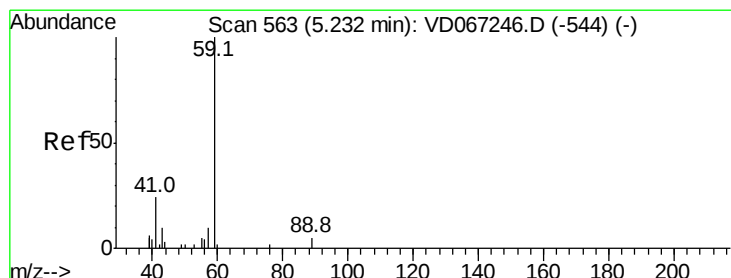
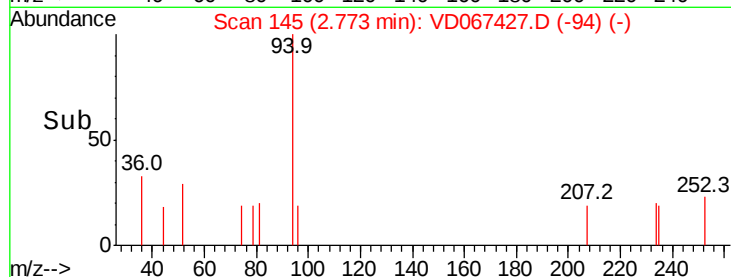
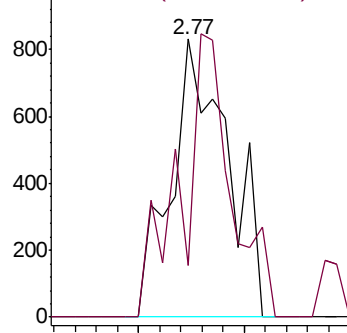
94 100

96 18.7 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 563

Delta R.T. 0.00 min

Lab File: VD067427.D

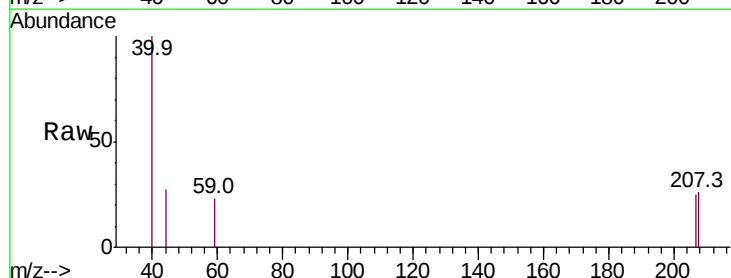
Acq: 28 Oct 2020 12:09

Tgt Ion: 59 Resp: 53

Ion Ratio Lower Upper

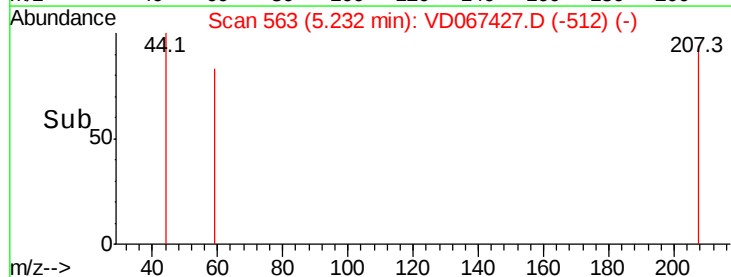
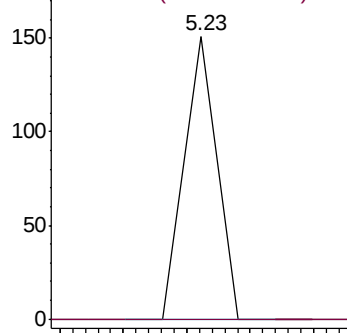
59 100

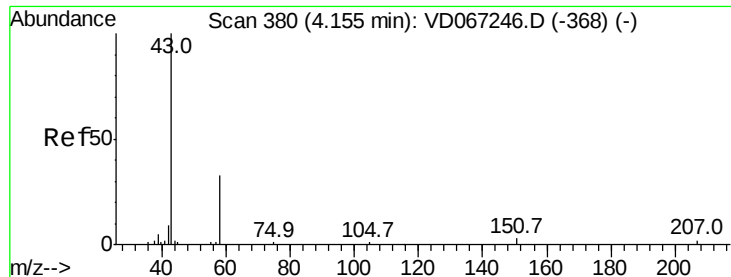
57 0.0 5.1 7.7#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 13.054 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD067427.D

Acq: 28 Oct 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

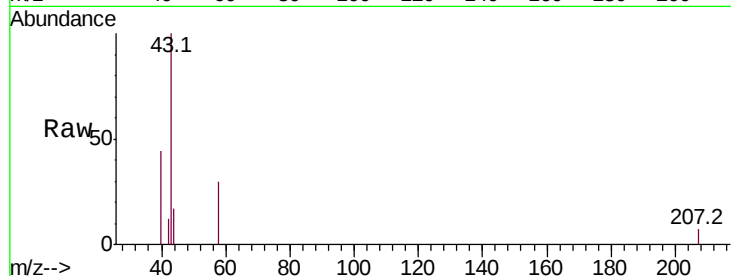
VD1028SBL01

Tot Ion: 43 Resp: 6587

Ion Ratio Lower Upper

43 100

58 30.3 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

2500

2000

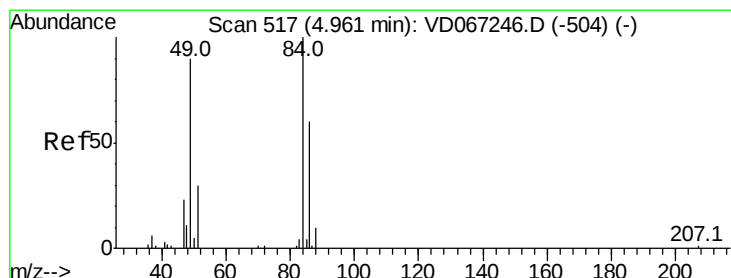
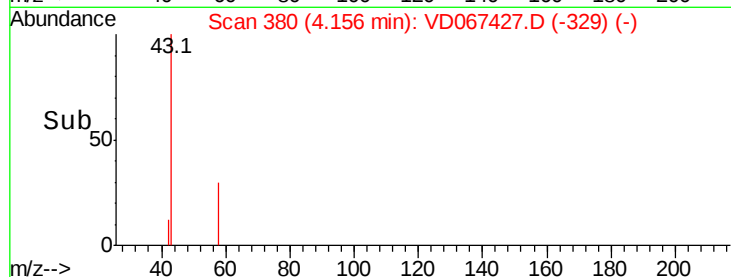
1500

1000

500

0

Time--> 4.05 4.10 4.15 4.20 4.25



#20

Methylene Chloride

Concen: Below Cal

RT: 4.95 min Scan# 515

Delta R.T. -0.01 min

Lab File: VD067427.D

Acq: 28 Oct 2020 12:09

Tgt Ion: 84 Resp: 1216

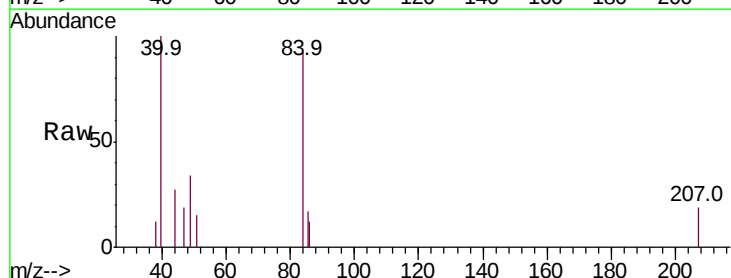
Ion Ratio Lower Upper

84 100

49 36.8 72.2 108.2#

51 16.2 23.8 35.8#

86 31.5 48.2 72.4#



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

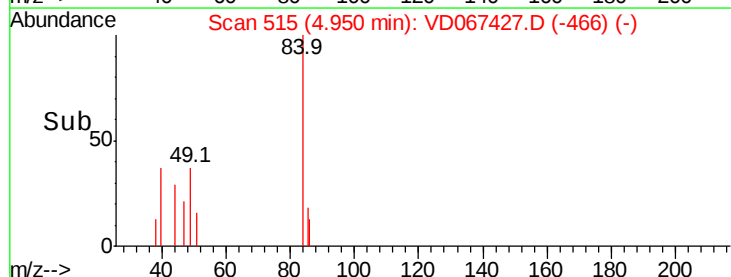
1500

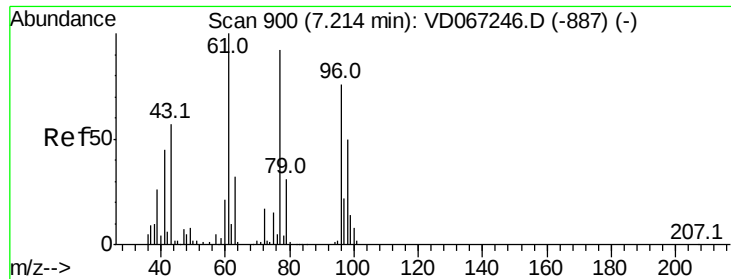
1000

500

0

Time--> 4.90 4.92 4.94 4.96

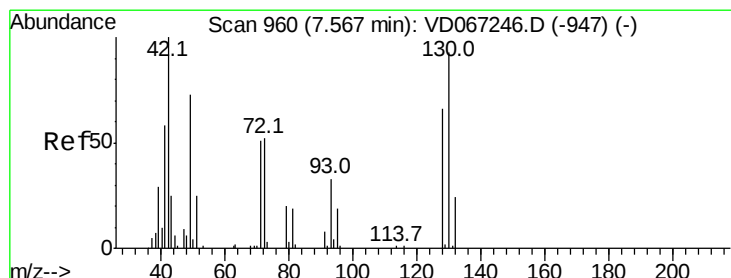
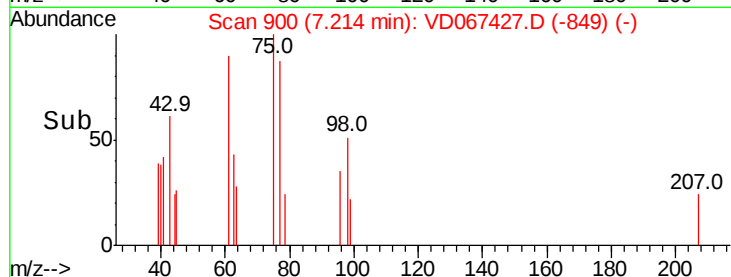
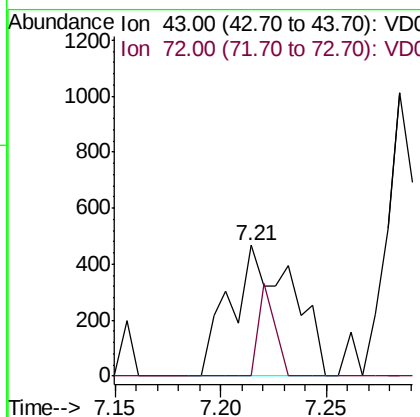
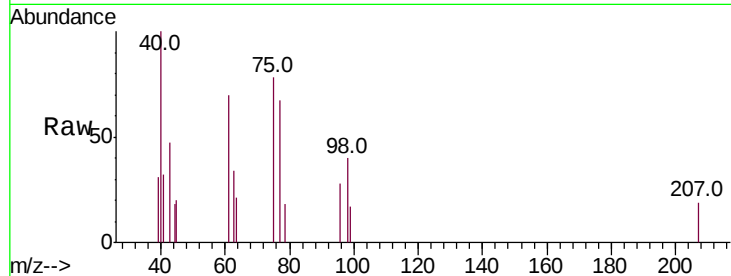




#25
2-Butanone
Concen: 1.652 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.00 min
Lab File: VD067427.D
Acq: 28 Oct 2020 12:09

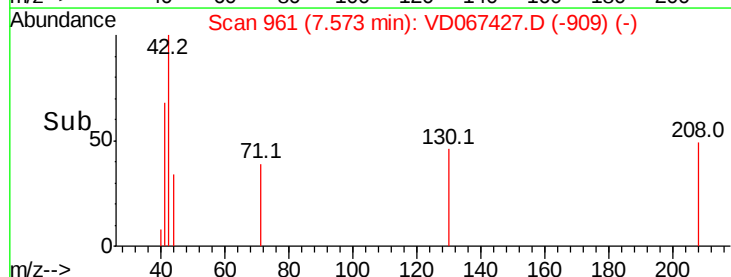
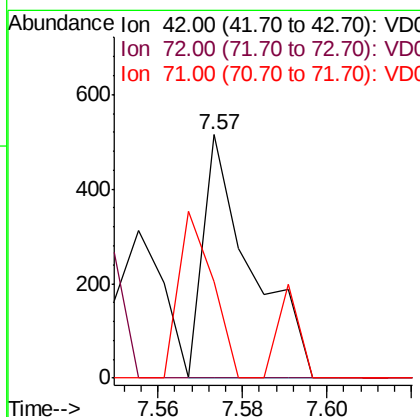
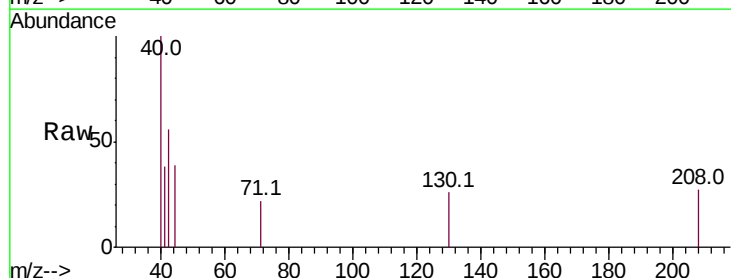
Instrument :
MSVOA_D
ClientSampleId :
VD1028SBL01

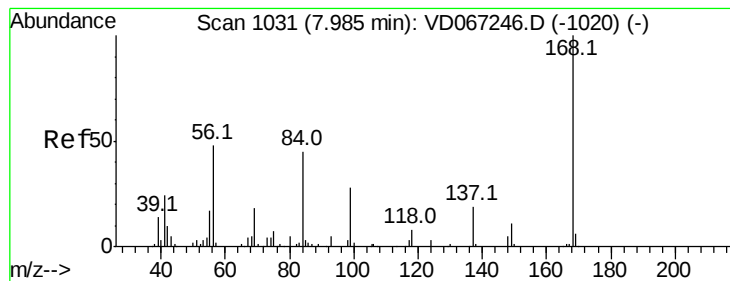
Tot Ion: 43 Resp: 950
Ion Ratio Lower Upper
43 100
72 0.0 23.7 35.5#



#29
Tetrahydrofuran
Concen: 1.276 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.01 min
Lab File: VD067427.D
Acq: 28 Oct 2020 12:09

Tgt Ion: 42 Resp: 408
Ion Ratio Lower Upper
42 100
72 0.0 43.2 64.8#
71 48.0 39.4 59.0





#31

Cyclohexane

Concen: 2.026 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD067427.D

Acq: 28 Oct 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD1028SBL01

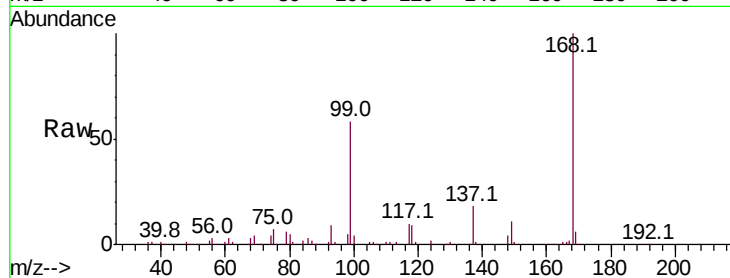
Tot Ion: 56 Resp: 8407

Ion Ratio Lower Upper

56 100

69 144.7 29.8 44.6#

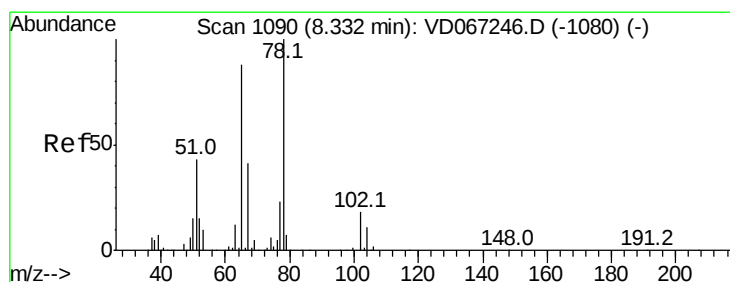
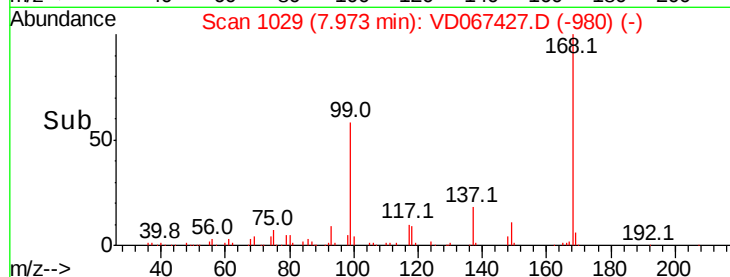
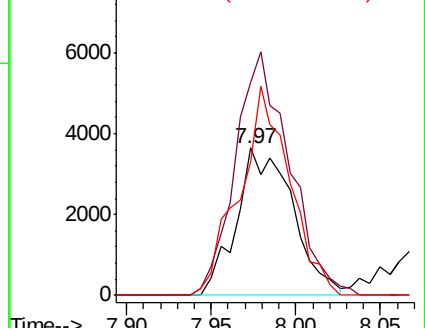
84 91.1 76.6 114.8



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: 49.815 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD067427.D

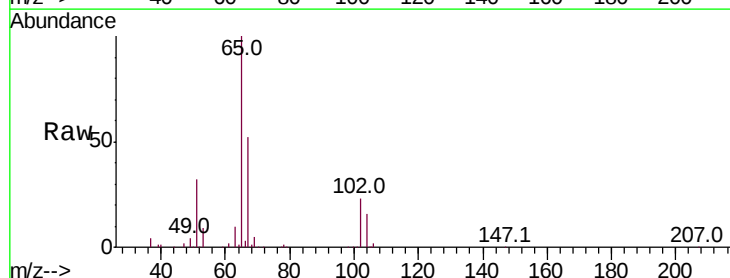
Acq: 28 Oct 2020 12:09

Tgt Ion: 65 Resp: 179480

Ion Ratio Lower Upper

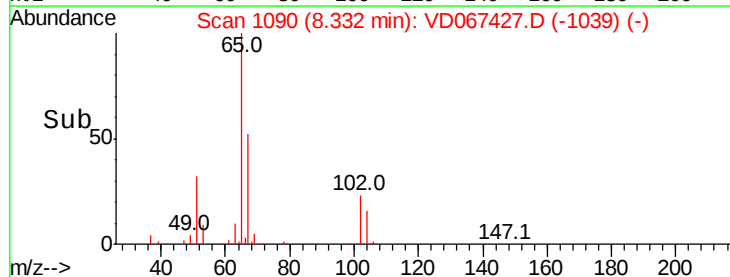
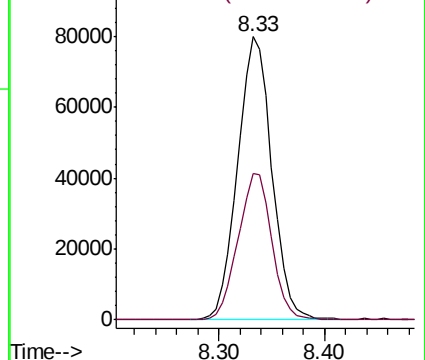
65 100

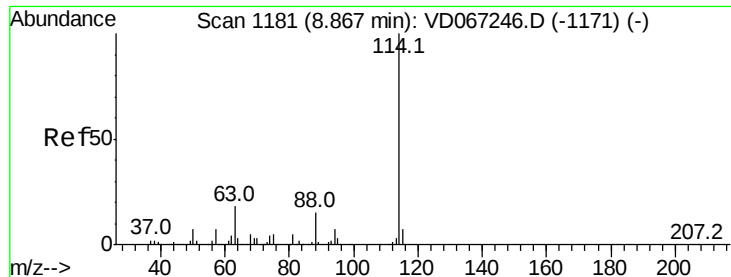
67 51.0 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

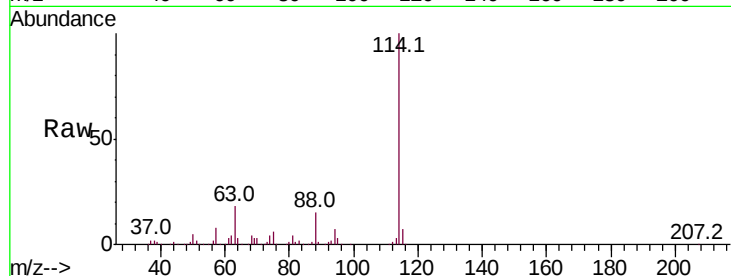




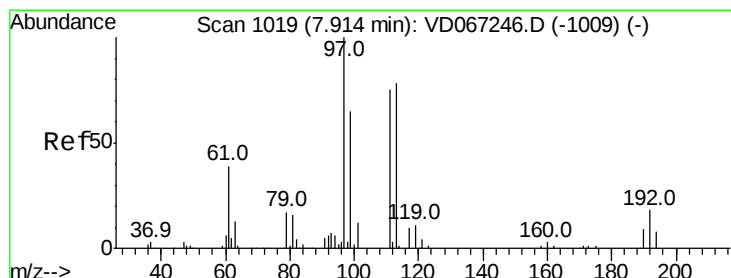
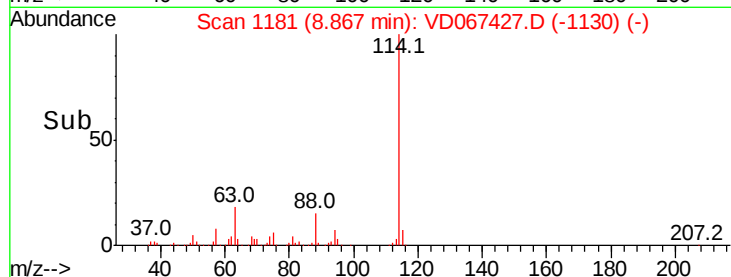
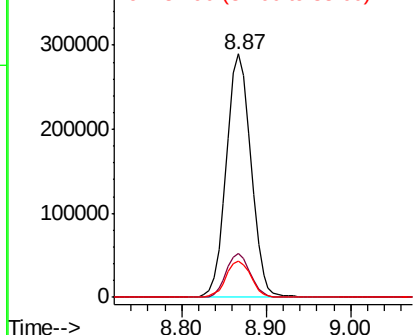
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD067427.D
 Acq: 28 Oct 2020 12:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1028SBL01

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.0	0.0	35.0
88	14.7	0.0	30.6

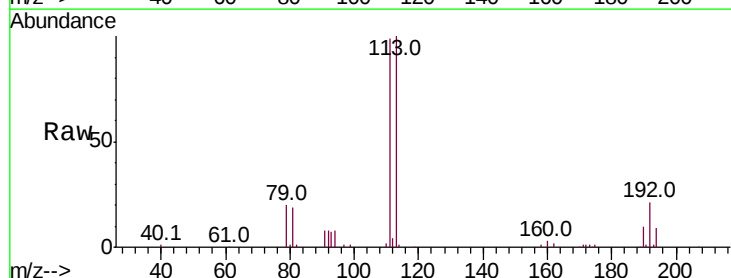


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

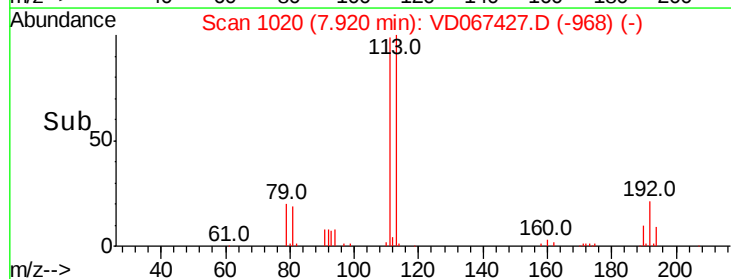
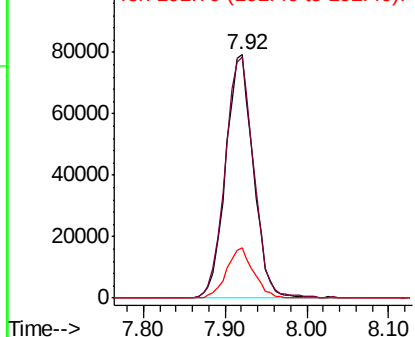


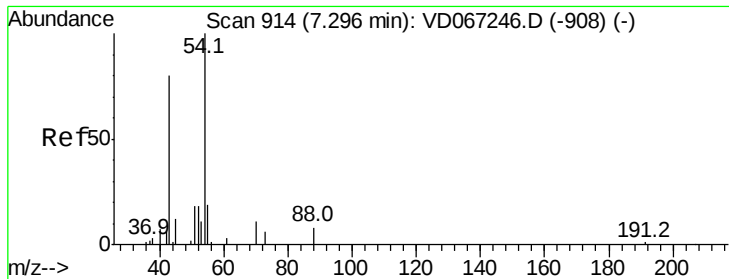
#35
 Dibromofluoromethane
 Concen: 48.085 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD067427.D
 Acq: 28 Oct 2020 12:09

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.6	122.4
192	20.0	17.0	25.4



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





#37

Ethyl Acetate

Concen: 1.469 ug/l

RT: 7.28 min Scan# 912

Delta R.T. -0.01 min

Lab File: VD067427.D

Acq: 28 Oct 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD1028SBL01

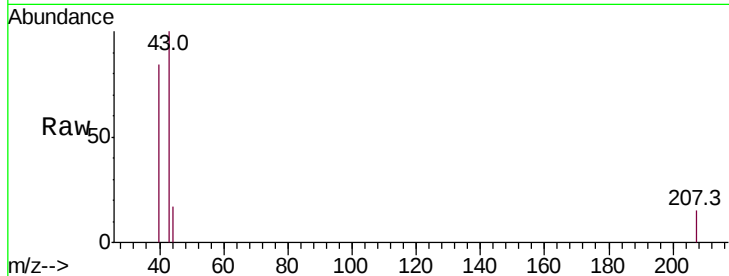
Tot Ion: 43 Resp: 2138

Ion Ratio Lower Upper

43 100

61 3.4 15.6 23.4#

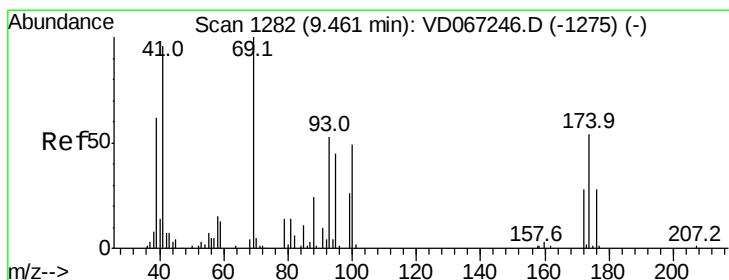
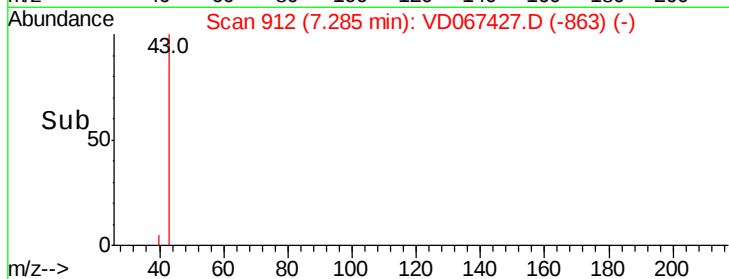
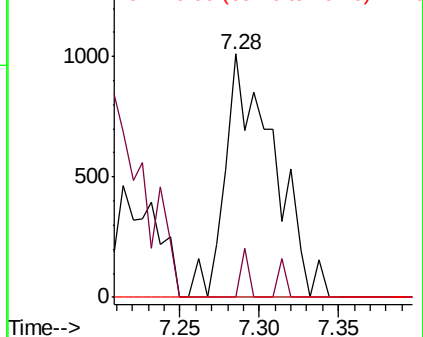
70 0.0 10.4 15.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC



#49

1,4-Dioxane

Concen: Below Cal

RT: 9.47 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VD067427.D

Acq: 28 Oct 2020 12:09

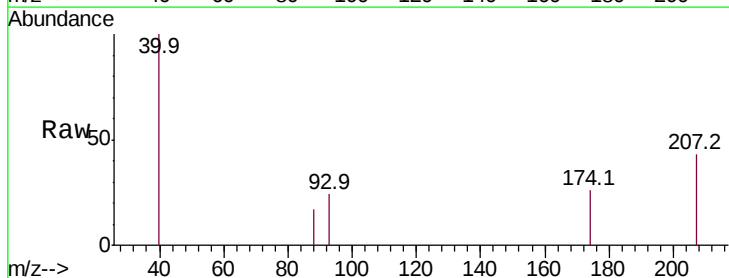
Tgt Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

43 0.0 23.9 35.9#

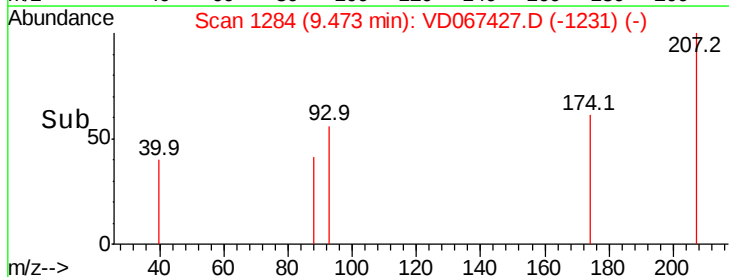
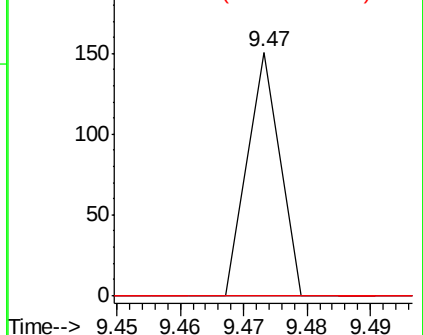
58 0.0 51.0 76.6#

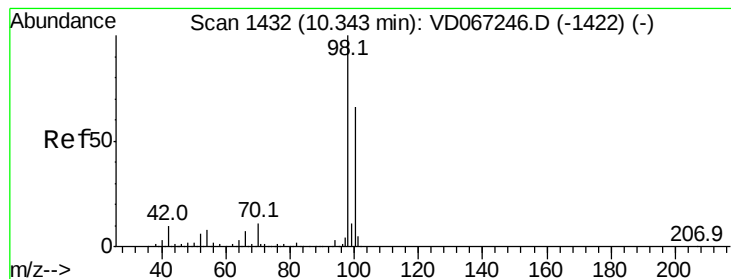


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#50

Toluene-d8

Concen: 48.381 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067427.D

Acq: 28 Oct 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

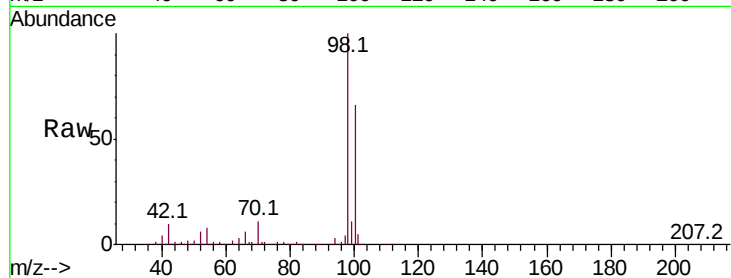
VD1028SBL01

Tot Ion: 98 Resp: 680283

Ion Ratio Lower Upper

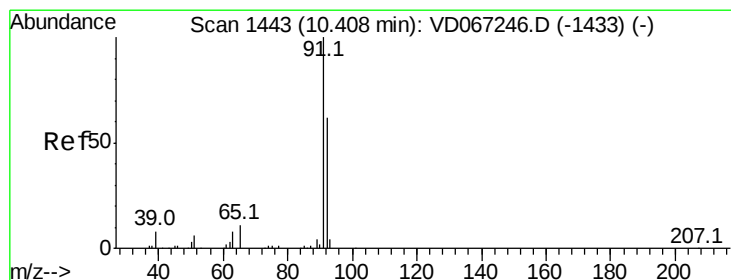
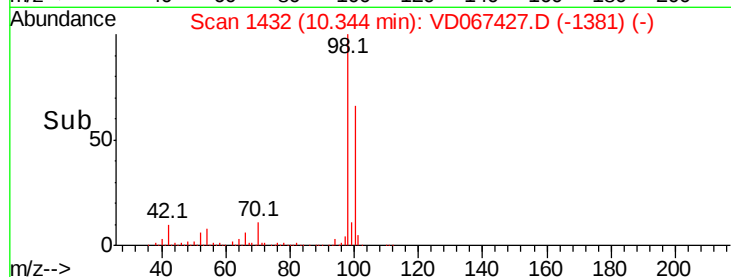
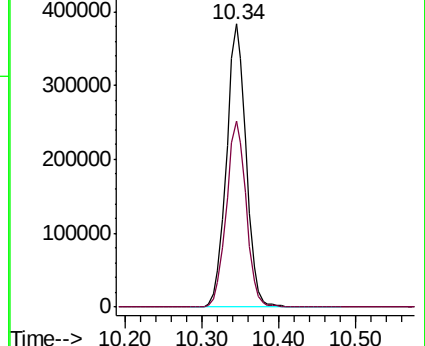
98 100

100 66.3 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#52

Toluene

Concen: 1.040 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD067427.D

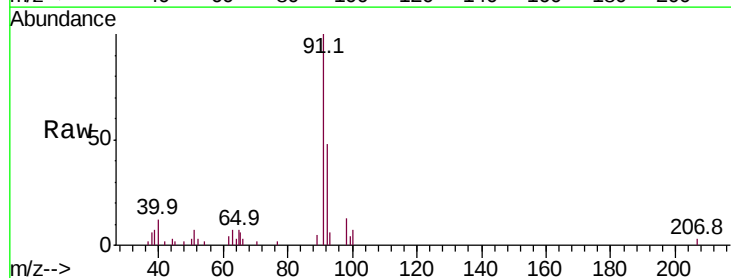
Acq: 28 Oct 2020 12:09

Tgt Ion: 92 Resp: 9618

Ion Ratio Lower Upper

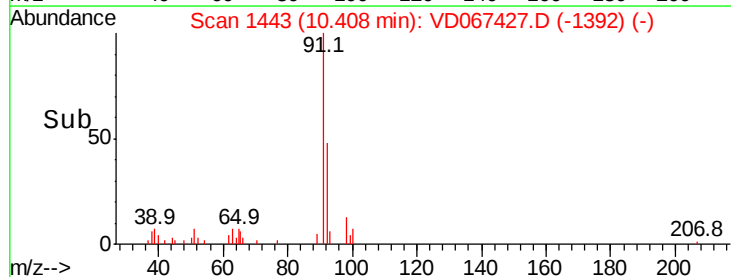
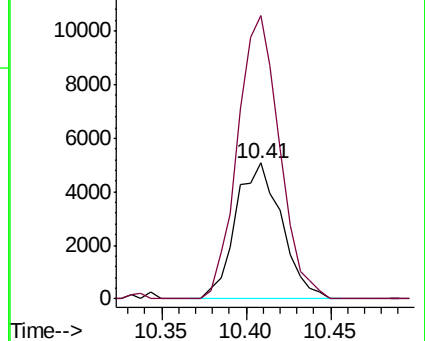
92 100

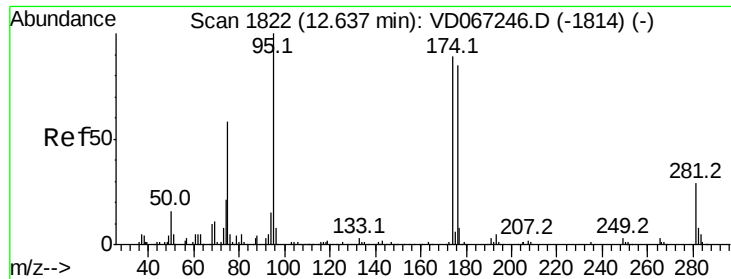
91 190.0 133.8 200.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

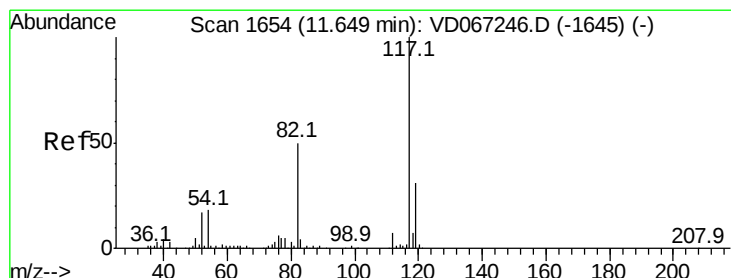
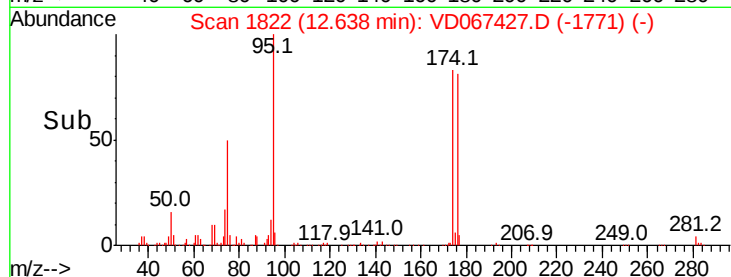
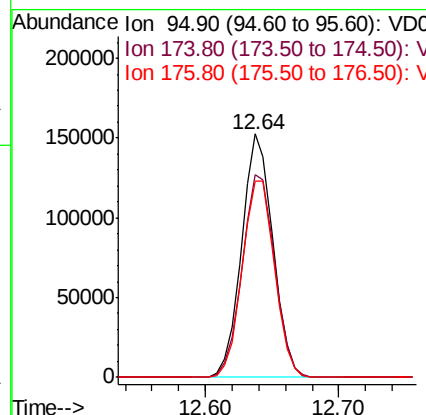
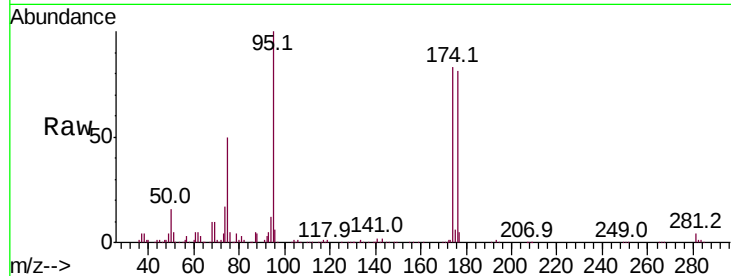




#62
4-Bromofluorobenzene
Concen: 50.315 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD067427.D
Acq: 28 Oct 2020 12:09

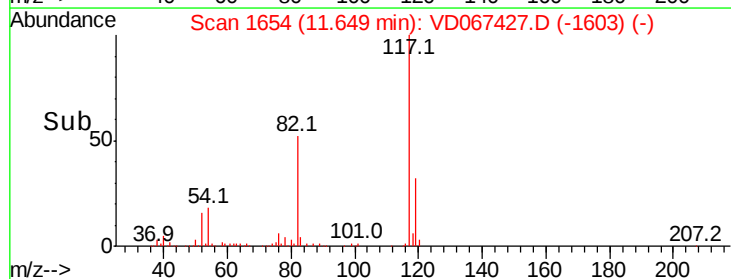
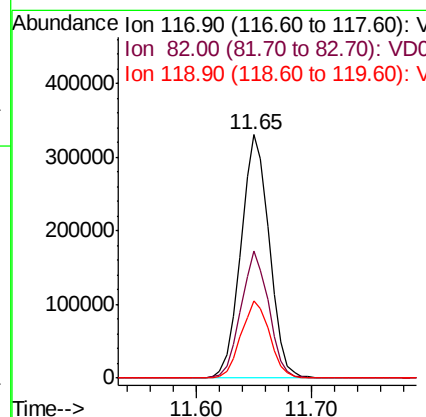
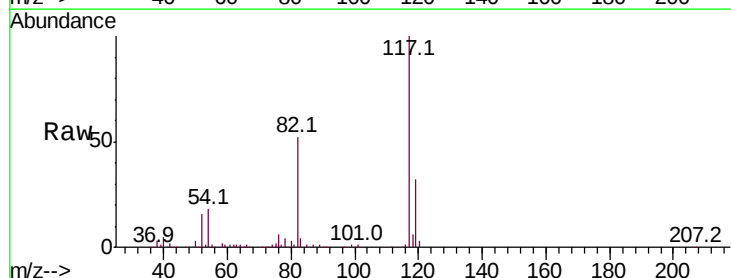
Instrument :
MSVOA_D
ClientSampleId :
VD1028SBL01

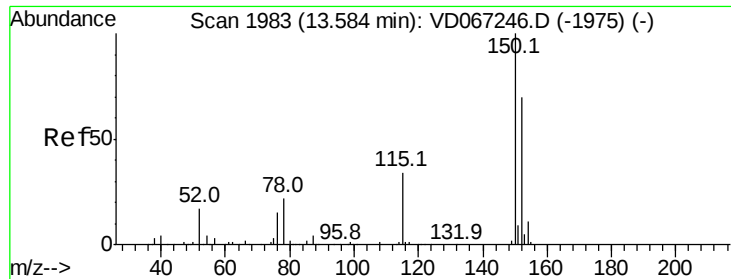
Tot Ion	Ratio	Lower	Upper
95	100		
174	86.9	0.0	175.2
176	83.9	0.0	168.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067427.D
Acq: 28 Oct 2020 12:09

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.4	39.9	59.9
119	31.6	24.9	37.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD067427.D

Acq: 28 Oct 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD1028SBL01

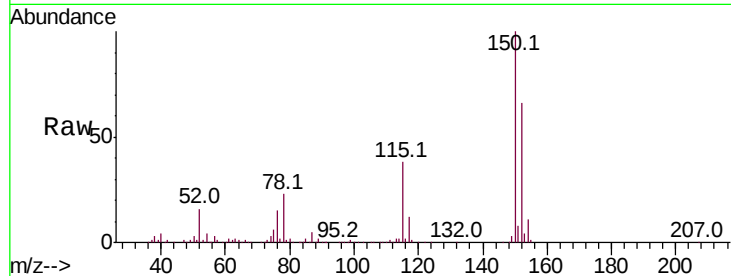
Tot Ion:152 Resp: 279338

Ion Ratio Lower Upper

152 100

115 60.0 29.3 87.9

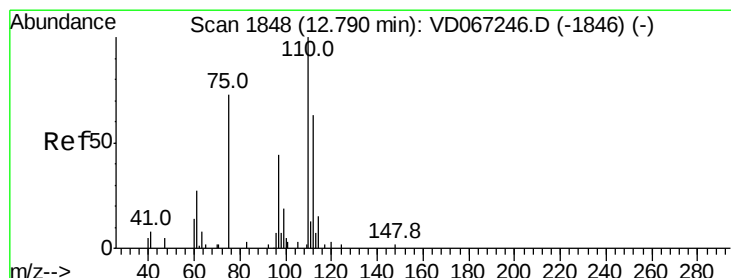
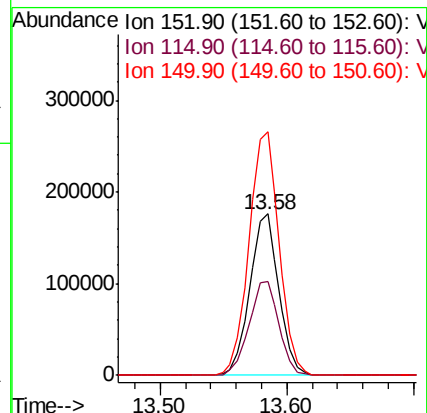
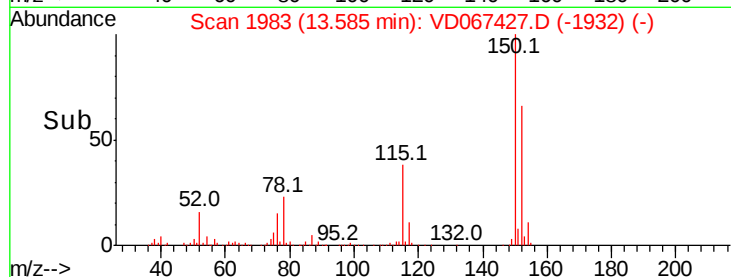
150 156.8 0.0 339.0



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: 64.708 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067427.D

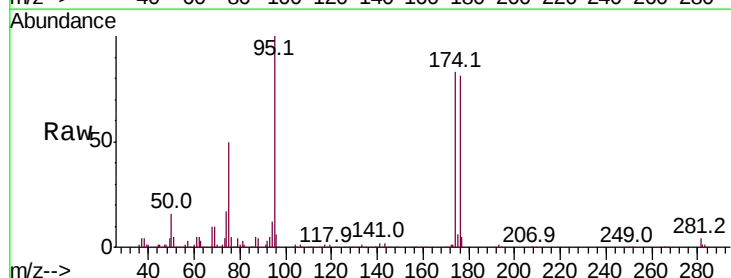
Acq: 28 Oct 2020 12:09

Tgt Ion: 75 Resp: 125280

Ion Ratio Lower Upper

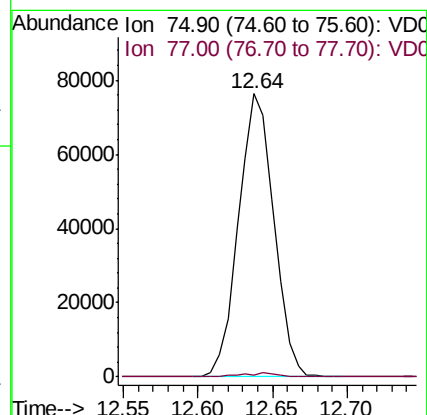
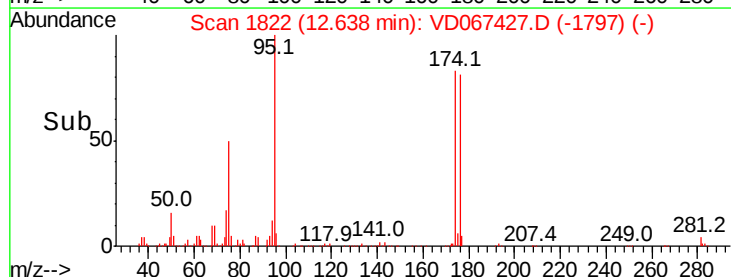
75 100

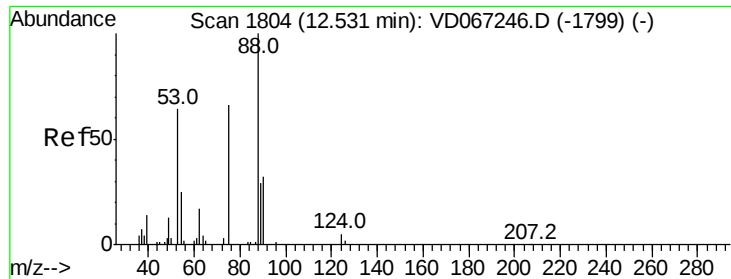
77 1.3 0.0 0.0#



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: 146.739 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067427.D

Acq: 28 Oct 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD1028SBL01

Tot Ion: 75 Resp: 125280

Ion Ratio Lower Upper

75 100

53 0.1 78.5 117.7#

89 0.0 39.9 59.9#

