

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090920\
 Data File : VD066583.D
 Acq On : 09 Sep 2020 15:14
 Operator : VA/SY
 Sample : L3894-04
 Misc : 7.91G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 AL-FALAH-2

Quant Time: Sep 10 01:40:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D090320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 04 01:57:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	360063	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	661908	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	609303	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	259149	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	241708	55.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.96%	
35) Dibromofluoromethane	7.91	113	227465	50.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.88%	
50) Toluene-d8	10.34	98	809423	50.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.44%	
62) 4-Bromofluorobenzene	12.63	95	267624	50.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.14%	

Target Compounds

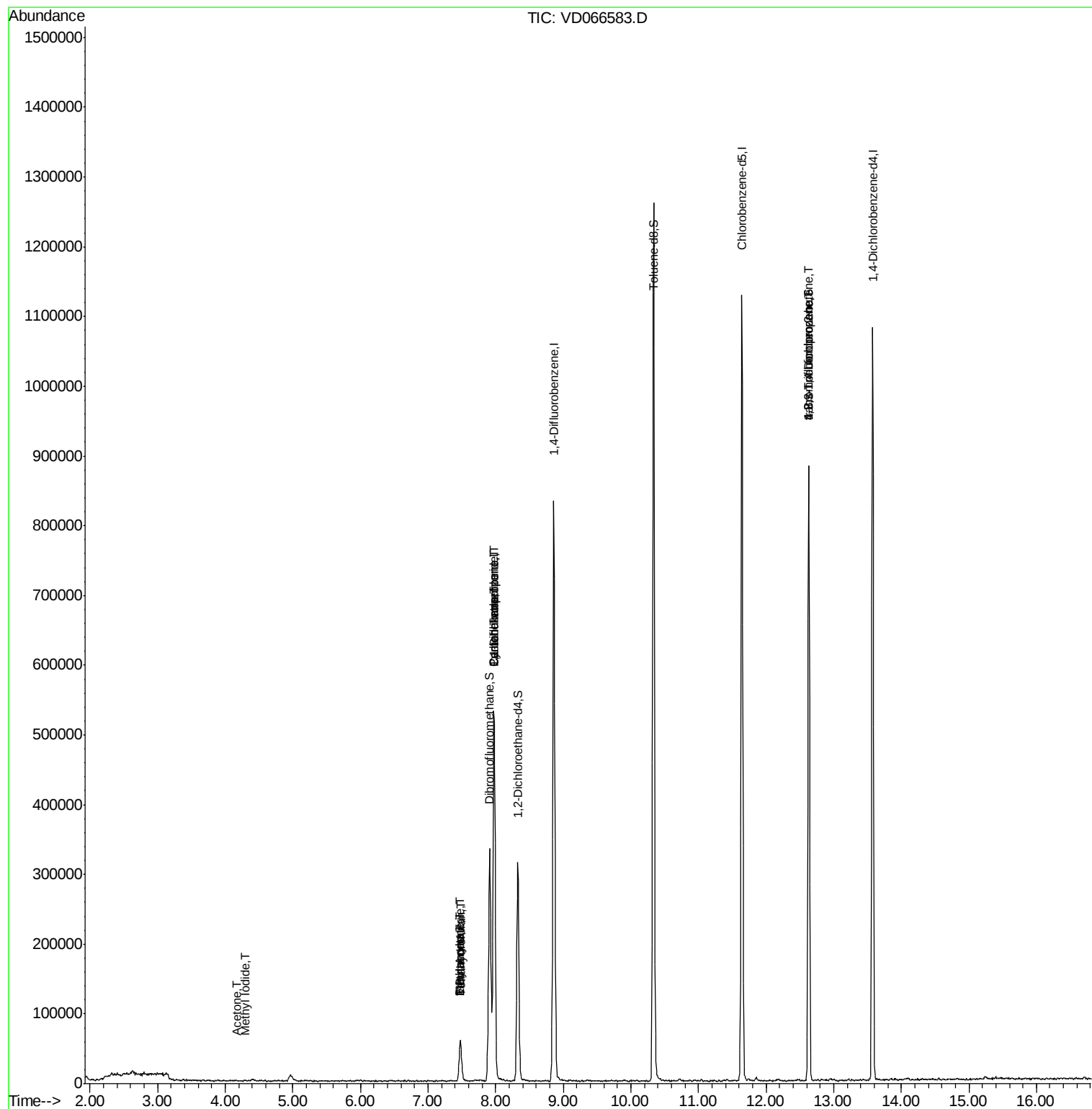
						Qvalue
2) Dichlorodifluoromethane	1.99	85	373	Below Cal	#	46
5) Bromomethane	2.77	94	1126	Below Cal		97
10) Methyl Iodide	4.29	142	55	4.037 ug/l	#	35
11) Tert butyl alcohol	5.23	59	560	Below Cal		100
16) Acetone	4.17	43	937	1.169 ug/l	#	46
20) Methylene Chloride	4.96	84	3602	Below Cal		92
25) 2-Butanone	7.48	43	34609	32.164 ug/l	#	51
29) Tetrahydrofuran	7.48	42	8642	12.896 ug/l	#	35
31) Cyclohexane	7.98	56	10024	1.410 ug/l	#	33
36) 1,1-Dichloropropene	7.97	75	33527	4.867 ug/l	#	51
37) Ethyl Acetate	7.48	43	50493	18.408 ug/l	#	68
38) Carbon Tetrachloride	7.97	117	40662	5.585 ug/l	#	19
41) Methacrylonitrile	7.47	41	32264	24.300 ug/l	#	43
76) 1,2,3-Trichloropropane	12.63	75	154829	62.122 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.63	75	154829	145.034 ug/l	#	7

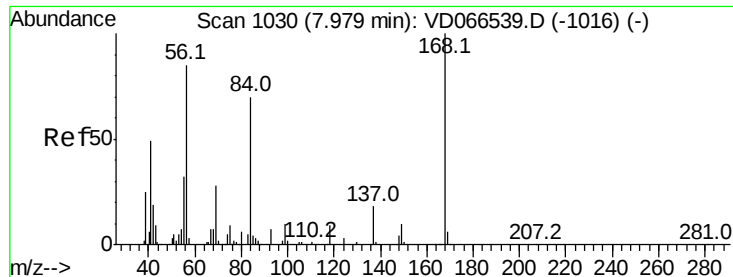
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 04 01:57:04 2020
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: VD066583.D

Acq: 09 Sep 2020 15:14

Instrument :

MSVOA_D

ClientSampleId :

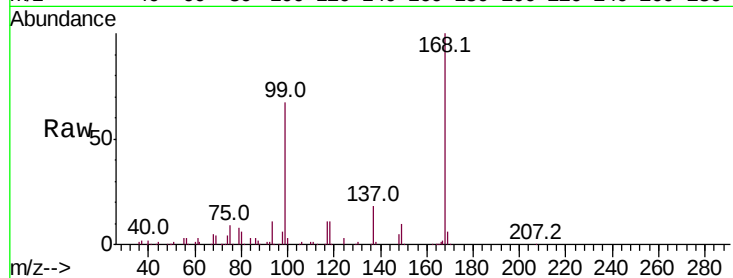
AL-FALAH-2

Tot Ion:168 Resp: 360063

Ion Ratio Lower Upper

168 100

99 67.1 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

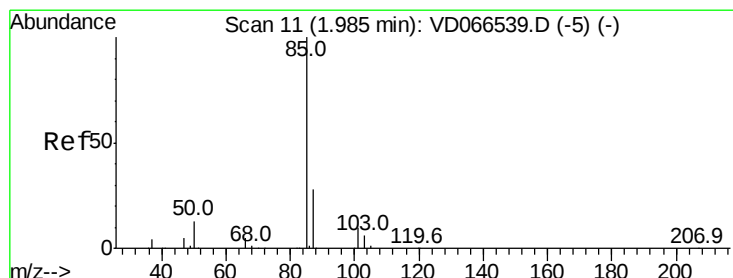
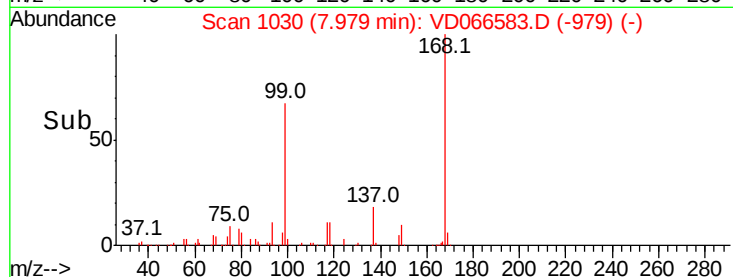
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066583.D

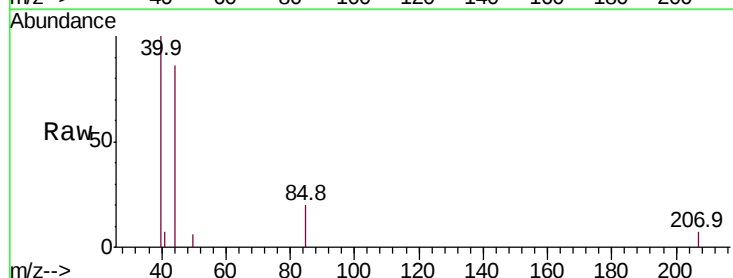
Acq: 09 Sep 2020 15:14

Tgt Ion: 85 Resp: 373

Ion Ratio Lower Upper

85 100

87 0.0 14.2 42.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

600

500

400

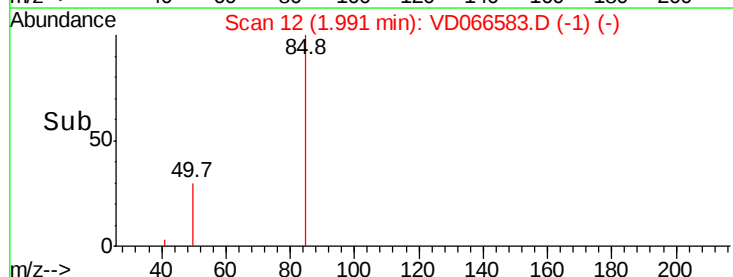
300

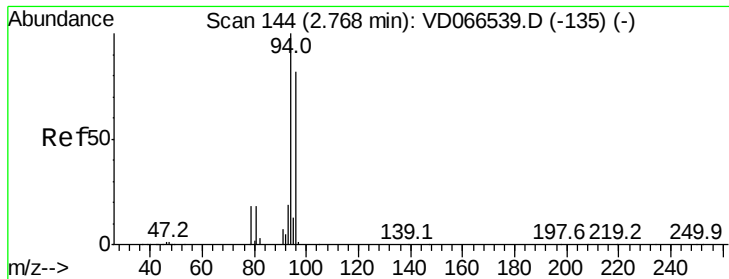
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD066583.D

Acq: 09 Sep 2020 15:14

Instrument :

MSVOA_D

ClientSampleId :

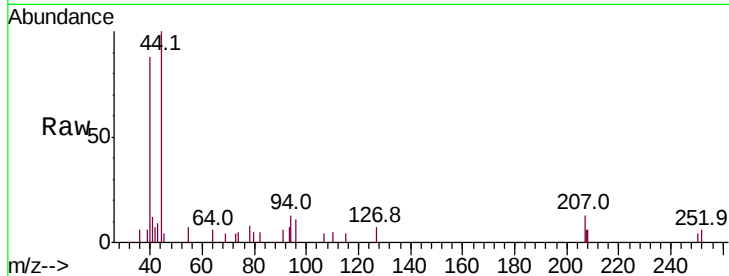
AL-FALAH-2

Tot Ion: 94 Resp: 1126

Ion Ratio Lower Upper

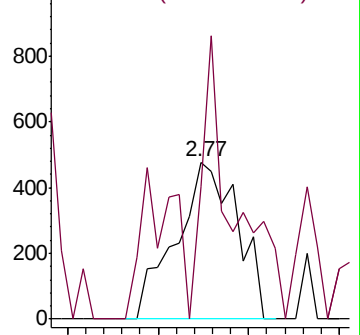
94 100

96 84.5 65.2 97.8

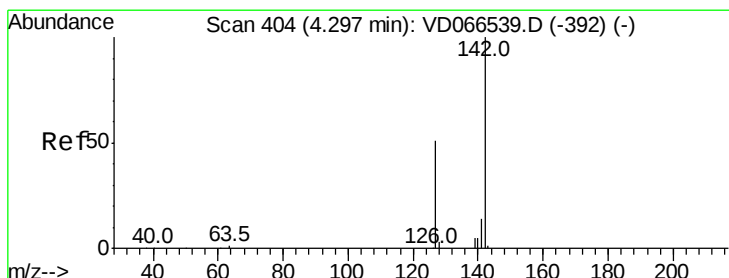
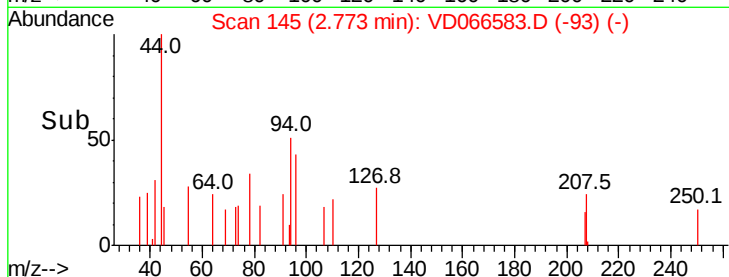


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



Time-->



#10

Methyl Iodide

Concen: 4.037 ug/l

RT: 4.29 min Scan# 402

Delta R.T. -0.01 min

Lab File: VD066583.D

Acq: 09 Sep 2020 15:14

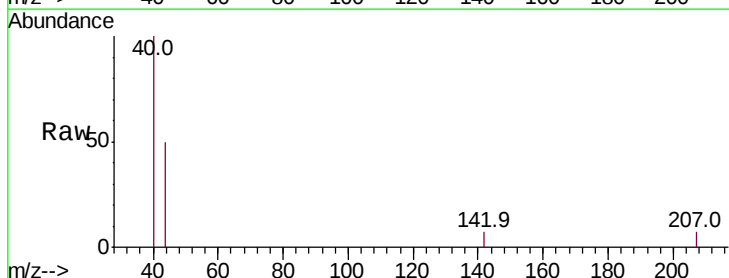
Tgt Ion: 142 Resp: 55

Ion Ratio Lower Upper

142 100

127 0.0 40.6 61.0#

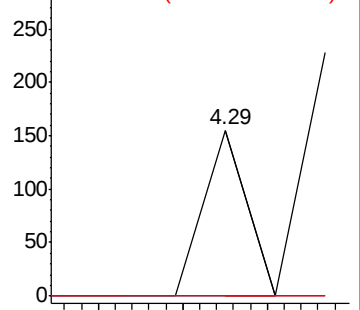
141 0.0 12.2 18.4#



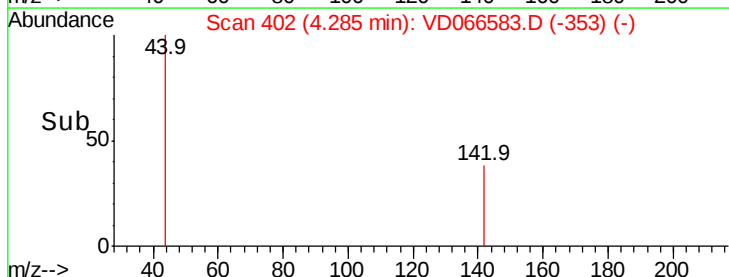
Abundance Ion 141.80 (141.50 to 142.50): V

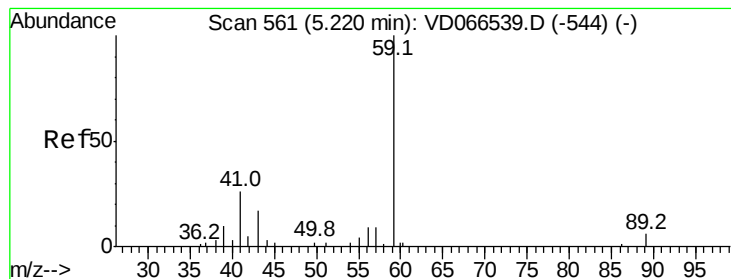
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



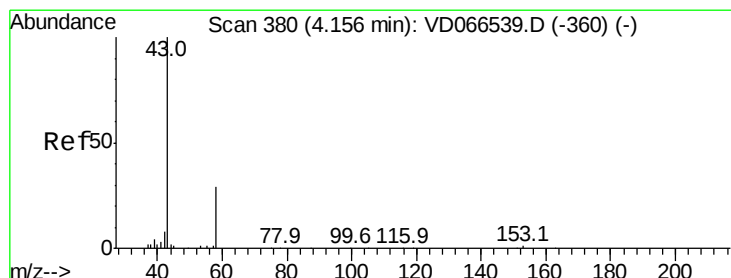
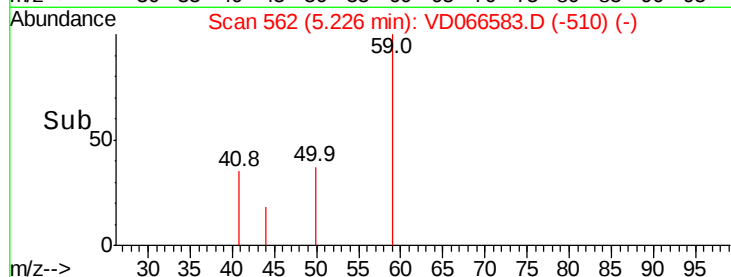
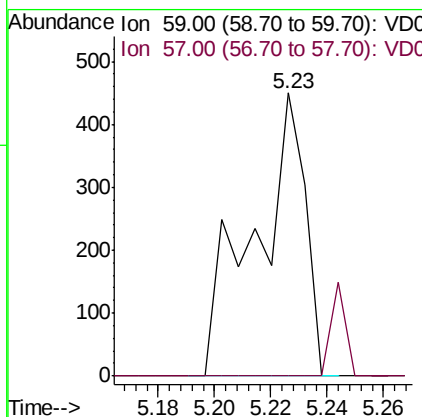
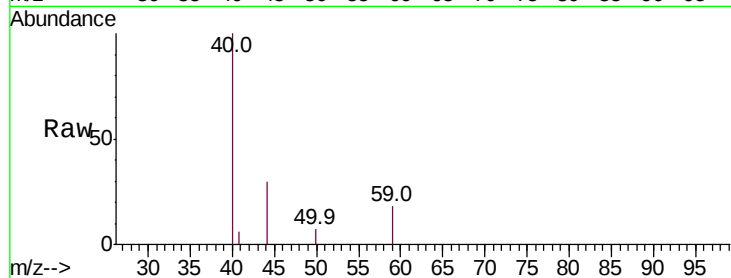


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.23 min Scan# 562
 Delta R.T. 0.01 min
 Lab File: VD066583.D
 Acq: 09 Sep 2020 15:14

Instrument :
 MSVOA_D
 ClientSampleId :
 AL-FALAH-2

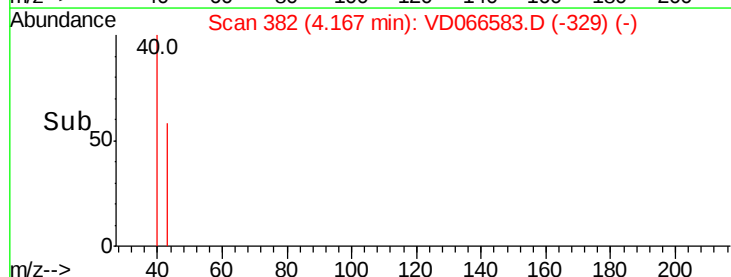
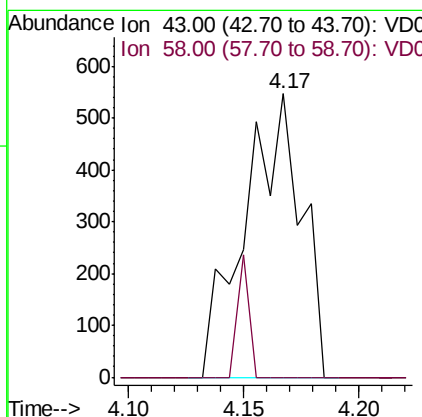
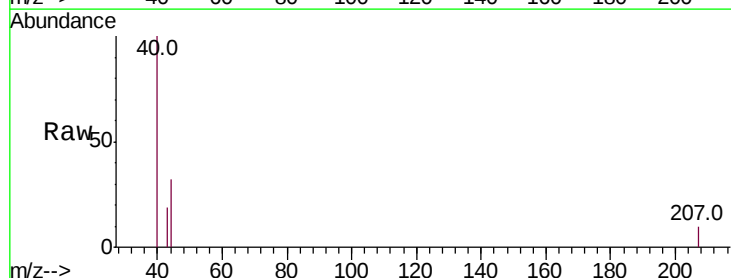
Tot Ion: 59 Resp: 560
 Ion Ratio Lower Upper
 59 100
 57 9.5 7.6 11.4

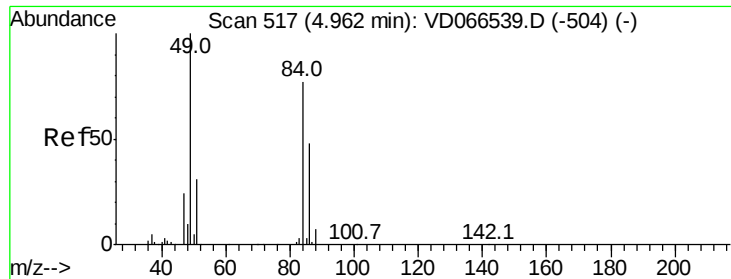


#16

Acetone
 Concen: 1.169 ug/l
 RT: 4.17 min Scan# 382
 Delta R.T. 0.01 min
 Lab File: VD066583.D
 Acq: 09 Sep 2020 15:14

Tgt Ion: 43 Resp: 937
 Ion Ratio Lower Upper
 43 100
 58 0.0 22.9 34.3#

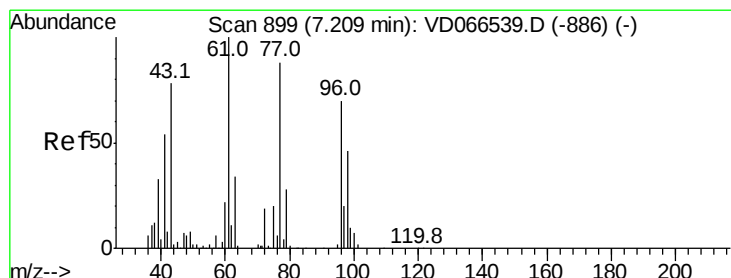
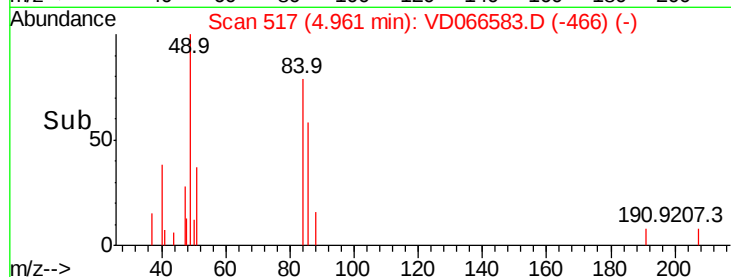
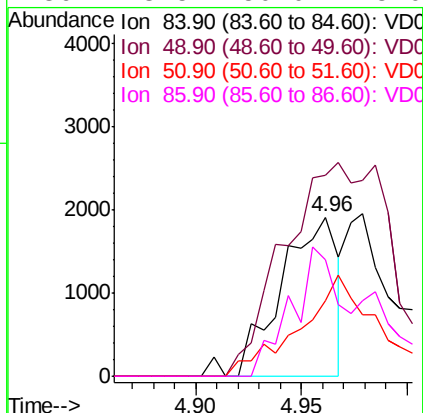
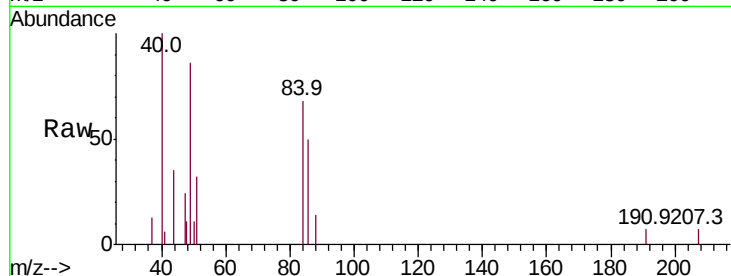




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD066583.D
Acq: 09 Sep 2020 15:14

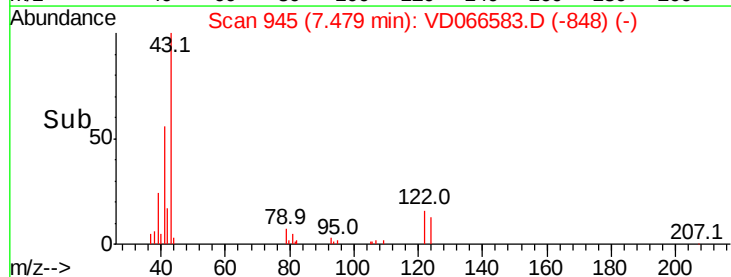
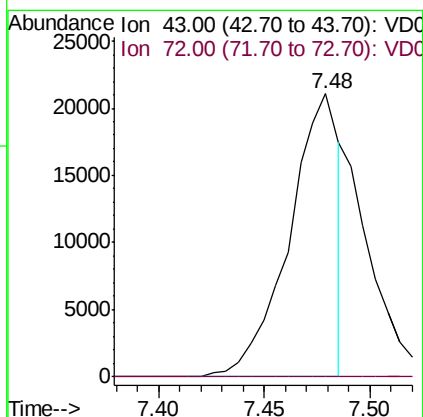
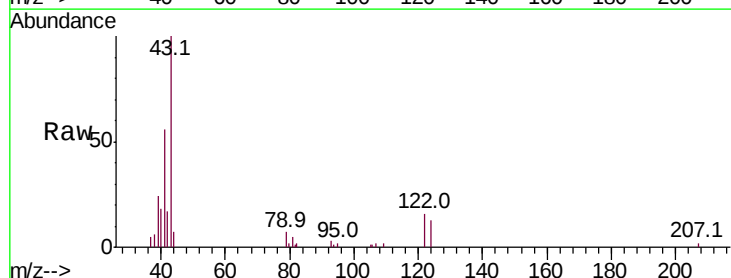
Instrument :
MSVOA_D
ClientSampleId :
AL-FALAH-2

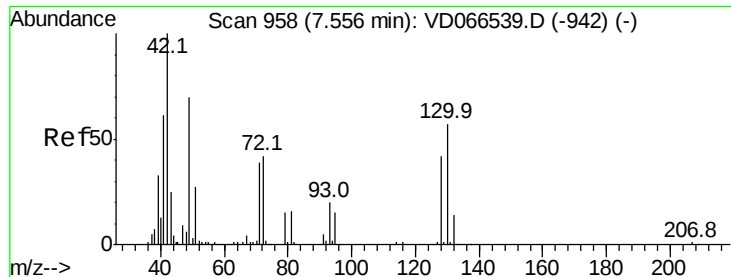
Tot Ion: 84 Resp: 3602
Ion Ratio Lower Upper
84 100
49 126.9 104.3 156.5
51 47.6 32.2 48.4
86 73.5 50.0 75.0



#25
2-Butanone
Concen: 32.164 ug/l
RT: 7.48 min Scan# 945
Delta R.T. 0.27 min
Lab File: VD066583.D
Acq: 09 Sep 2020 15:14

Tgt Ion: 43 Resp: 34609
Ion Ratio Lower Upper
43 100
72 0.0 19.8 29.6#





#29

Tetrahydrofuran

Concen: 12.896 ug/l

RT: 7.48 min Scan# 946

Delta R.T. -0.07 min

Lab File: VD066583.D

Acq: 09 Sep 2020 15:14

Instrument :

MSVOA_D

ClientSampleId :

AL-FALAH-2

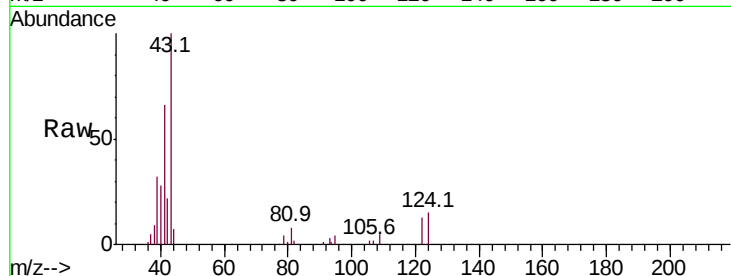
Tot Ion: 42 Resp: 8642

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.0#

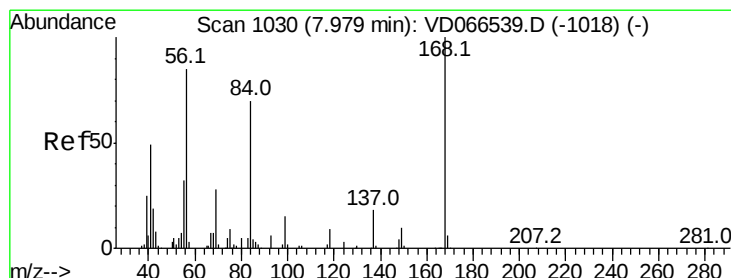
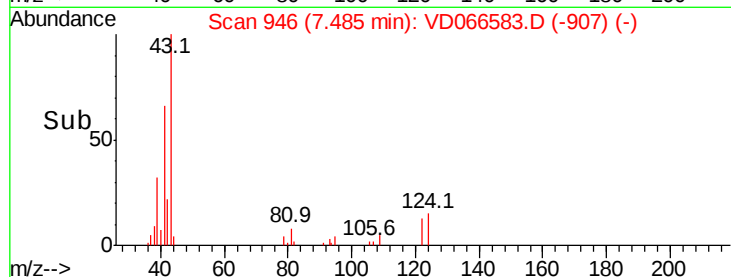
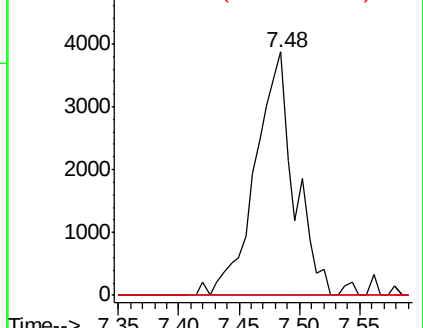
71 0.0 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.410 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066583.D

Acq: 09 Sep 2020 15:14

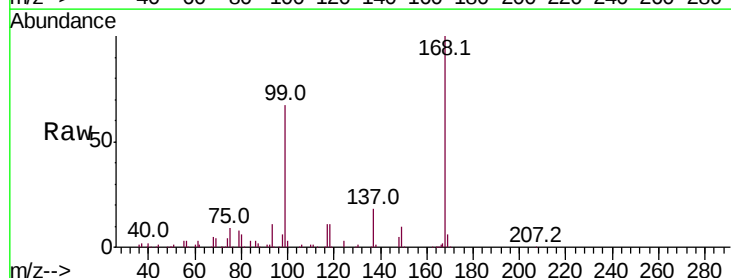
Tgt Ion: 56 Resp: 10024

Ion Ratio Lower Upper

56 100

69 133.1 26.3 39.5#

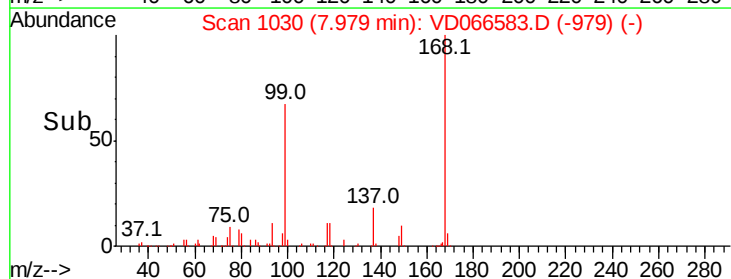
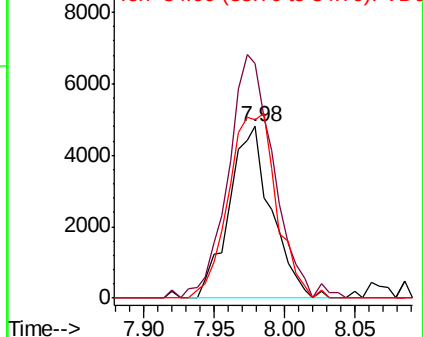
84 103.7 66.1 99.1#

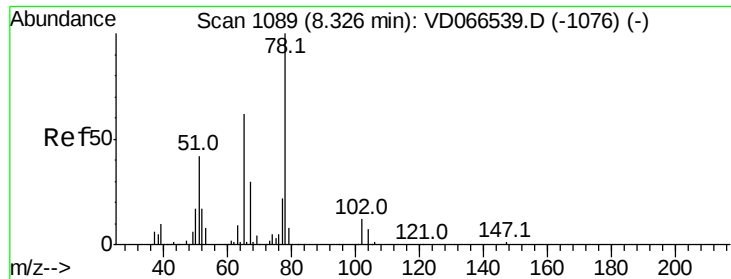


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 55.483 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VD066583.D

Acq: 09 Sep 2020 15:14

Instrument :

MSVOA_D

ClientSampleId :

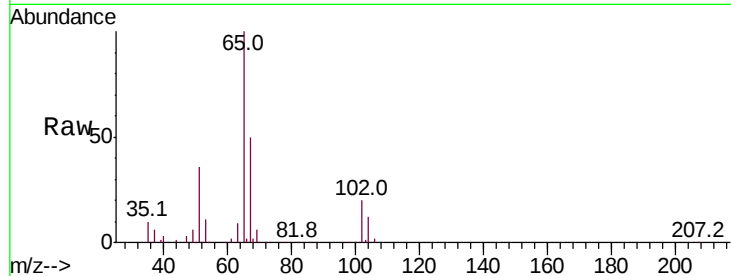
AL-FALAH-2

Tot Ion: 65 Resp: 241708

Ion Ratio Lower Upper

65 100

67 49.9 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

120000

100000

80000

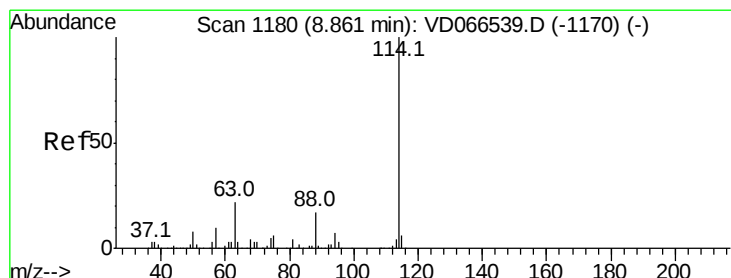
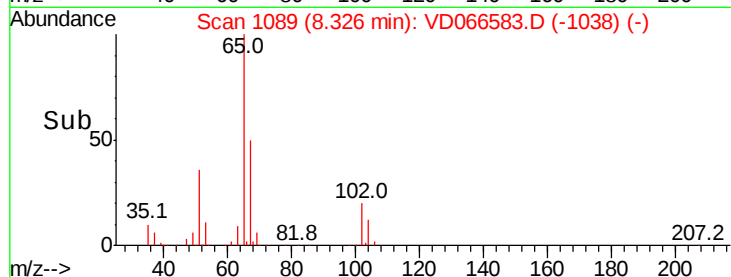
60000

40000

20000

0

Time--> 8.20 8.30 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066583.D

Acq: 09 Sep 2020 15:14

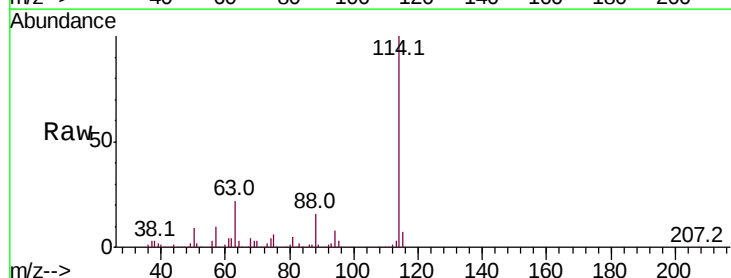
Tgt Ion: 114 Resp: 661908

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.2

88 16.3 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.86

400000

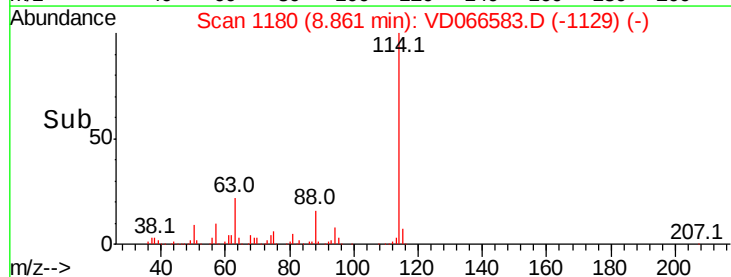
300000

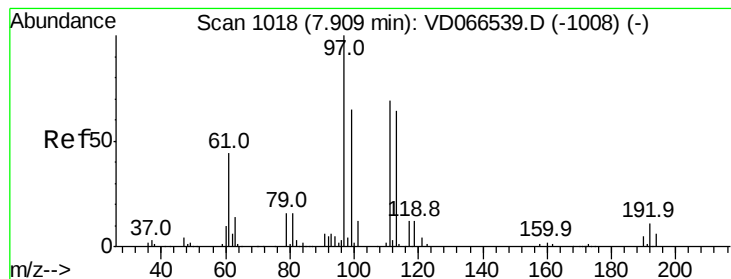
200000

100000

0

Time--> 8.80 8.90





#35

Dibromofluoromethane

Concen: 50.941 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066583.D

Acq: 09 Sep 2020 15:14

Instrument :

MSVOA_D

ClientSampleId :

AL-FALAH-2

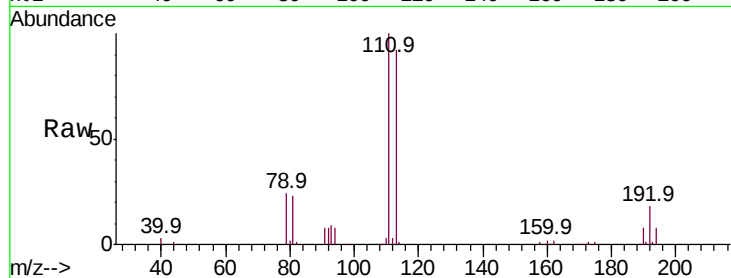
Tot Ion:113 Resp: 227465

Ion Ratio Lower Upper

113 100

111 105.2 83.2 124.8

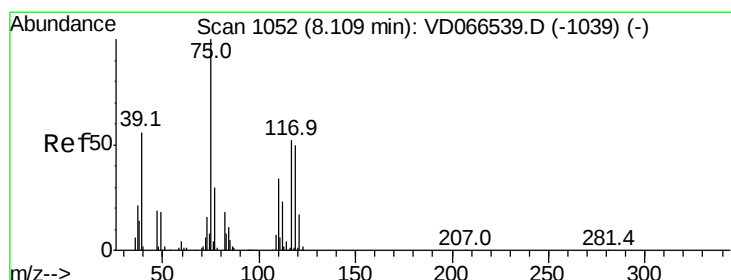
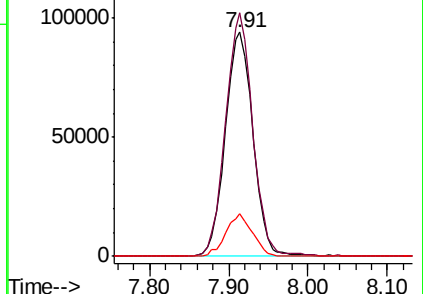
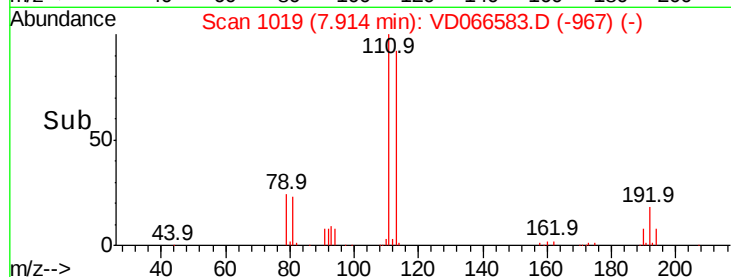
192 18.2 13.7 20.5



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: 4.867 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066583.D

Acq: 09 Sep 2020 15:14

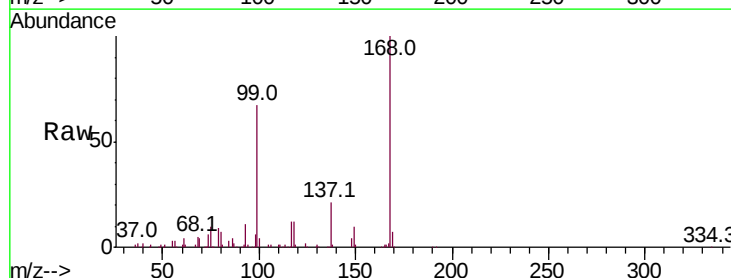
Tgt Ion: 75 Resp: 33527

Ion Ratio Lower Upper

75 100

110 10.1 17.3 52.0#

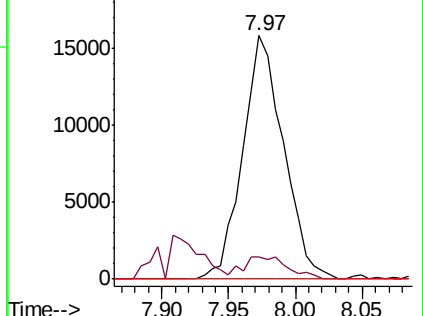
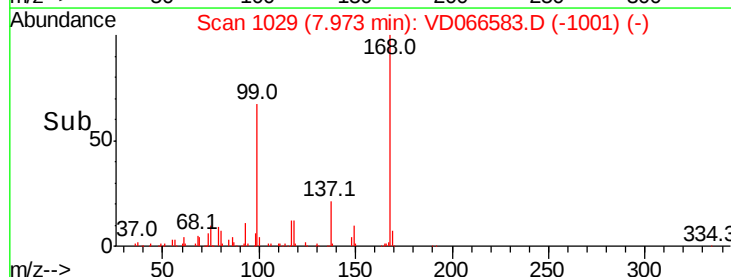
77 0.0 25.1 37.7#

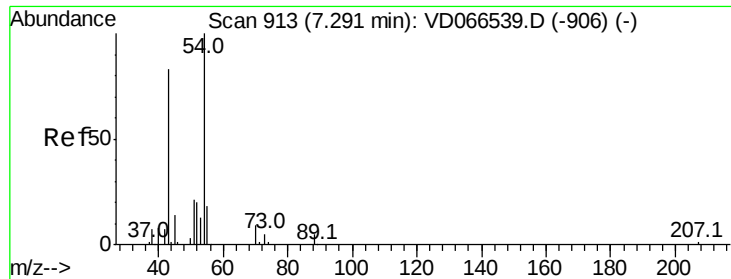


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

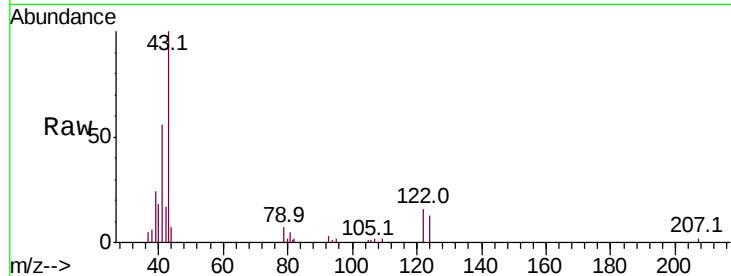




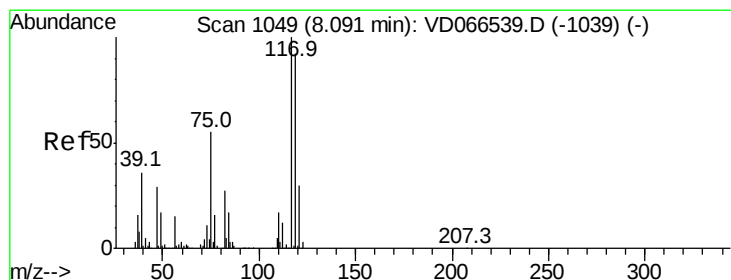
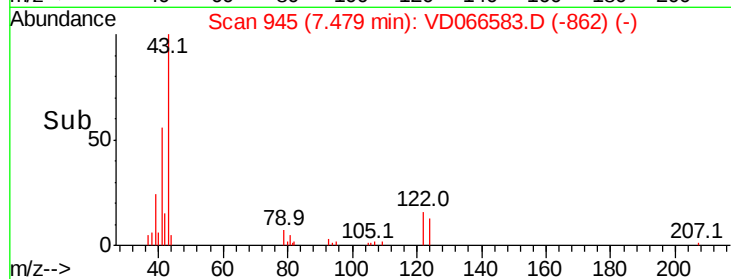
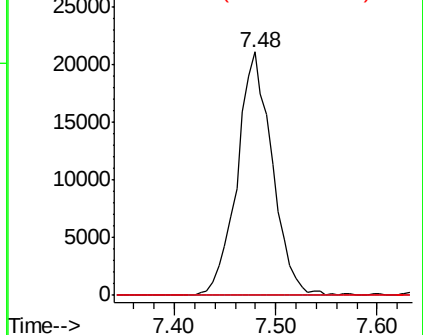
#37
Ethyl Acetate
Concen: 18.408 ug/l
RT: 7.48 min Scan# 945
Delta R.T. 0.19 min
Lab File: VD066583.D
Acq: 09 Sep 2020 15:14

Instrument :
MSVOA_D
ClientSampleID :
AL-FALAH-2

Tot Ion: 43 Resp: 50493
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.8#
70 0.0 7.9 11.9#

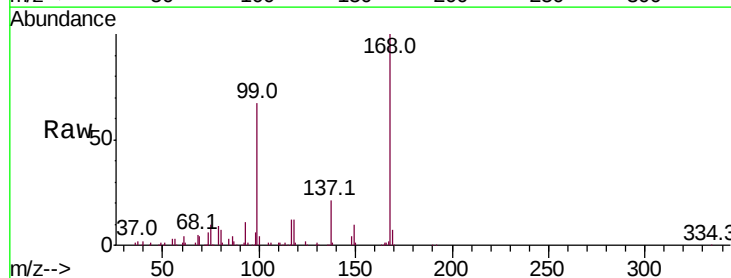


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

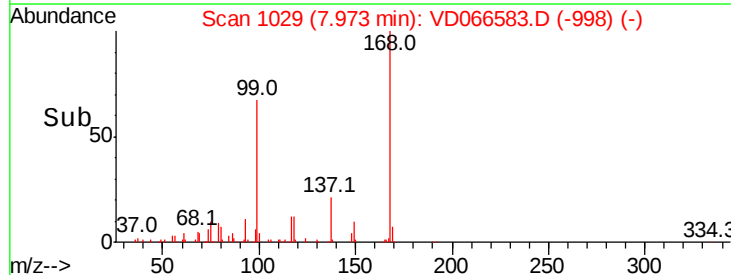
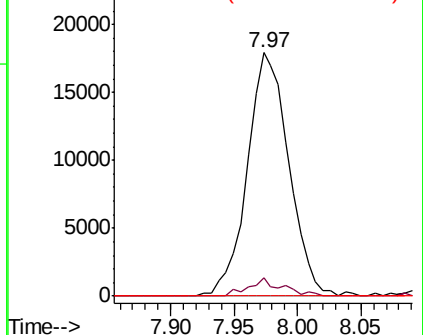


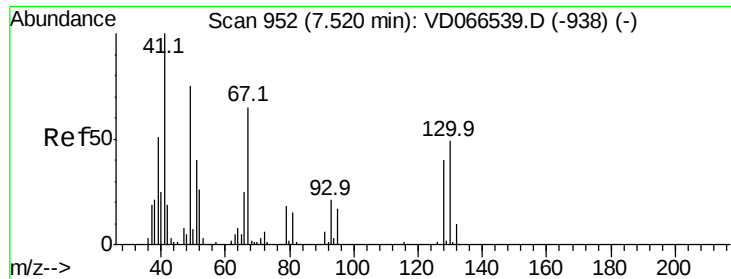
#38
Carbon Tetrachloride
Concen: 5.585 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.12 min
Lab File: VD066583.D
Acq: 09 Sep 2020 15:14

Tgt Ion: 117 Resp: 40662
Ion Ratio Lower Upper
117 100
119 7.3 73.9 110.9#
121 0.0 24.1 36.1#



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

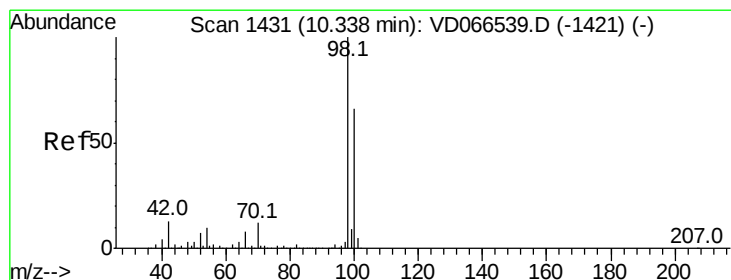
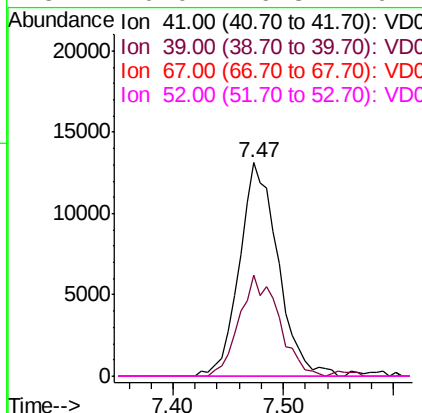
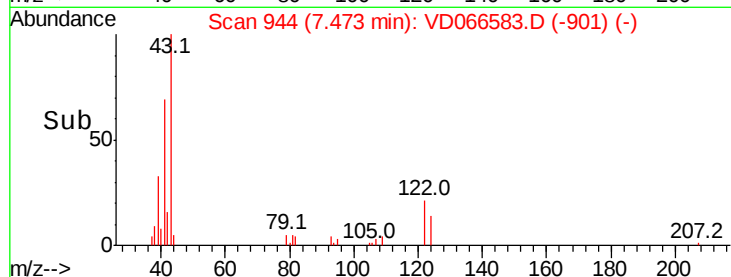
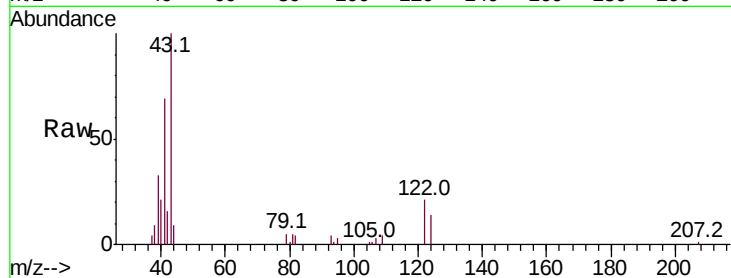




#41
Methacrylonitrile
Concen: 24.300 ug/l
RT: 7.47 min Scan# 944
Delta R.T. -0.05 min
Lab File: VD066583.D
Acq: 09 Sep 2020 15:14

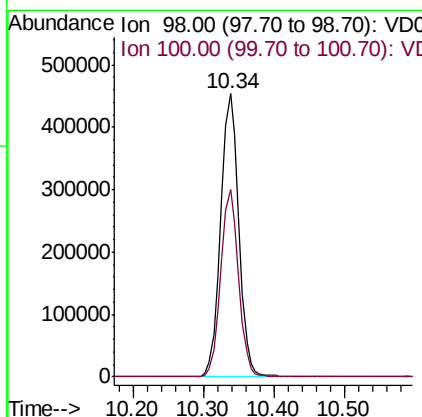
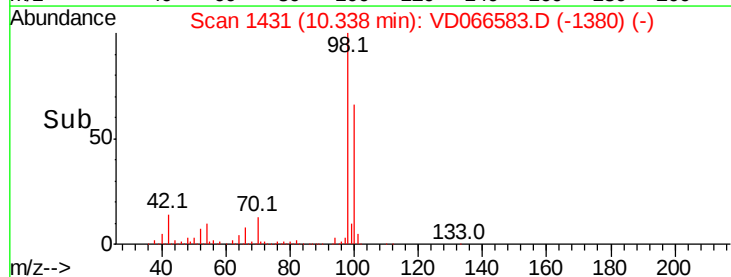
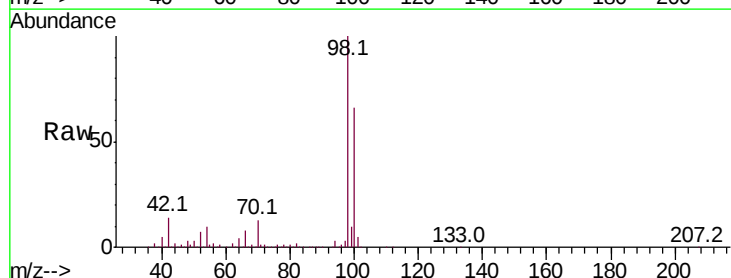
Instrument :
MSVOA_D
ClientSampleId :
AL-FALAH-2

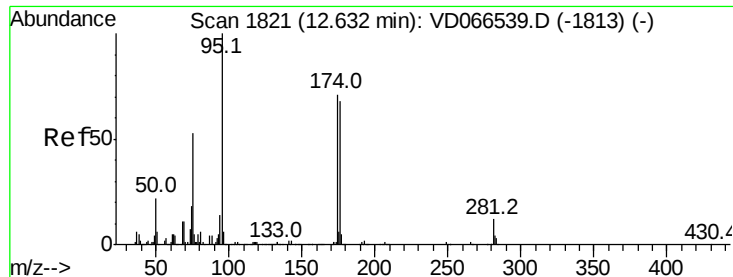
Tot Ion: 41 Resp: 32264
Ion Ratio Lower Upper
41 100
39 48.5 53.6 80.4#
67 0.0 59.2 88.8#
52 0.0 26.8 40.2#



#50
Toluene-d8
Concen: 50.717 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD066583.D
Acq: 09 Sep 2020 15:14

Tgt Ion: 98 Resp: 809423
Ion Ratio Lower Upper
98 100
100 64.9 52.9 79.3





#62

4-Bromofluorobenzene

Concen: 50.571 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066583.D

Acq: 09 Sep 2020 15:14

Instrument :

MSVOA_D

ClientSampleId :

AL-FALAH-2

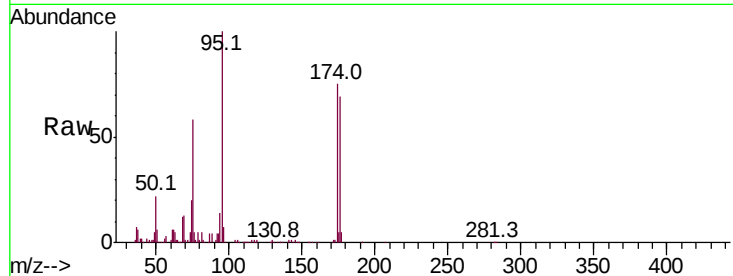
Tot Ion: 95 Resp: 267624

Ion Ratio Lower Upper

95 100

174 77.2 0.0 155.8

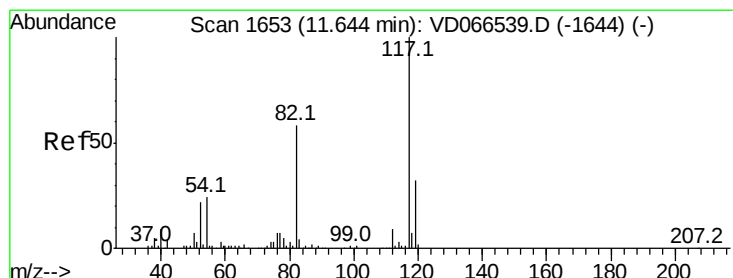
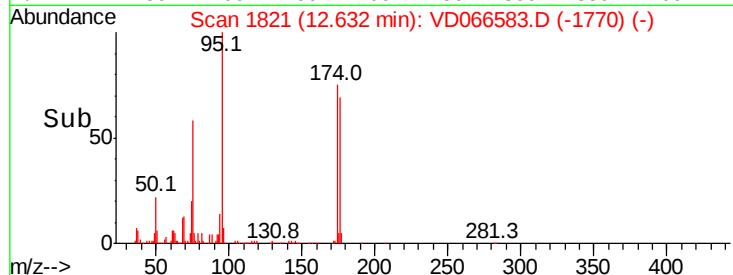
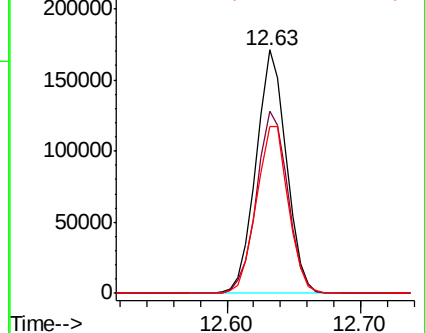
176 72.5 0.0 148.6



Abundance Ion 94.90 (94.60 to 95.60): V

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: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD066583.D

Acq: 09 Sep 2020 15:14

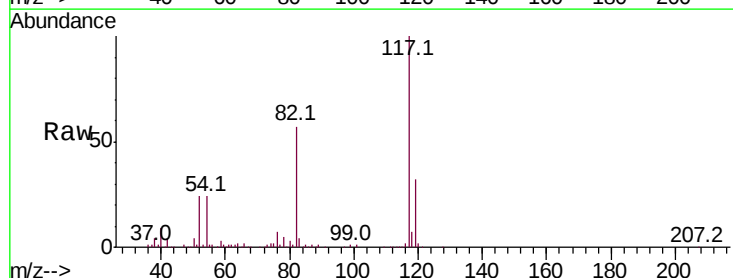
Tgt Ion: 117 Resp: 609303

Ion Ratio Lower Upper

117 100

82 56.9 46.2 69.2

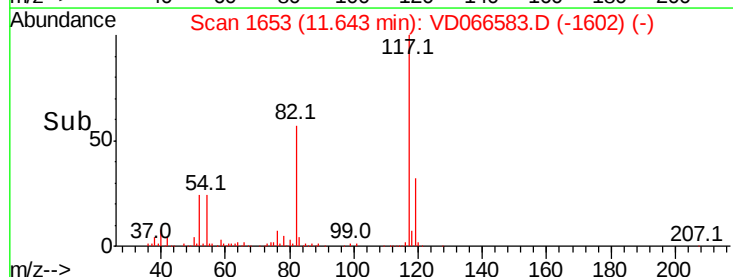
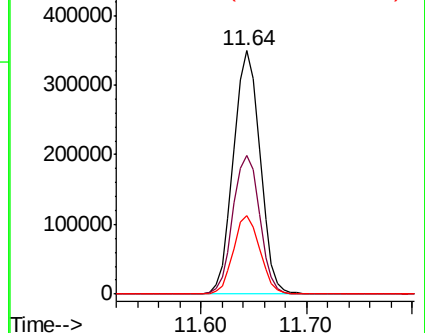
119 32.0 25.8 38.8

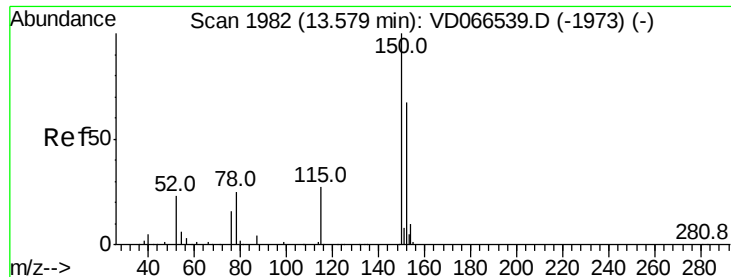


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066583.D

Acq: 09 Sep 2020 15:14

Instrument :

MSVOA_D

ClientSampleId :

AL-FALAH-2

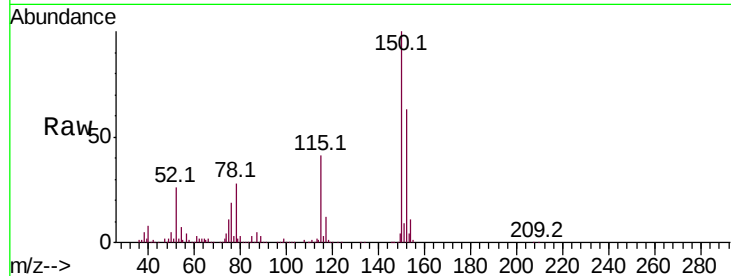
Tot Ion:152 Resp: 259149

Ion Ratio Lower Upper

152 100

115 64.0 30.4 91.2

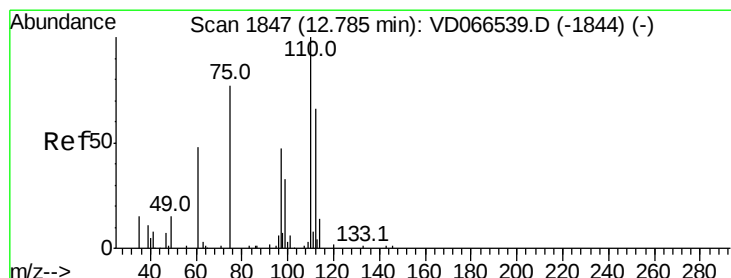
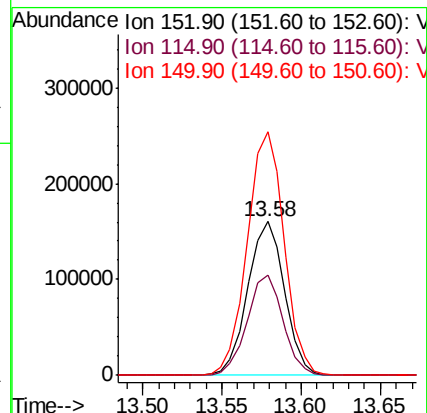
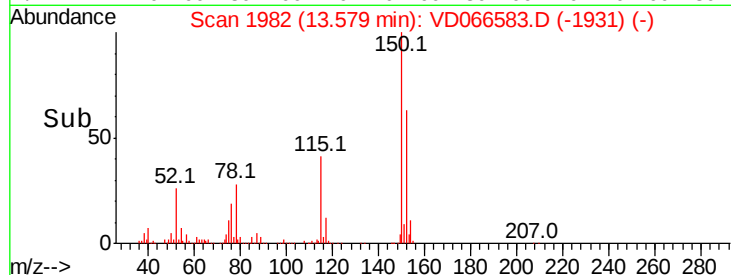
150 158.7 0.0 345.8



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: 62.122 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066583.D

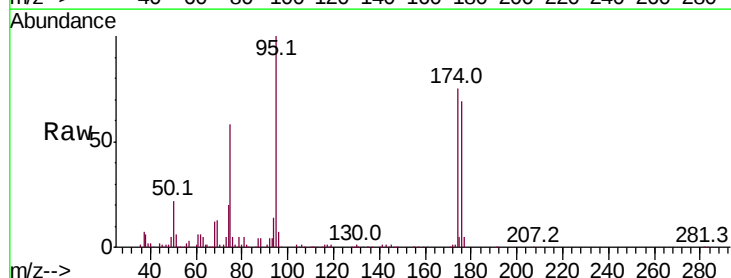
Acq: 09 Sep 2020 15:14

Tgt Ion: 75 Resp: 154829

Ion Ratio Lower Upper

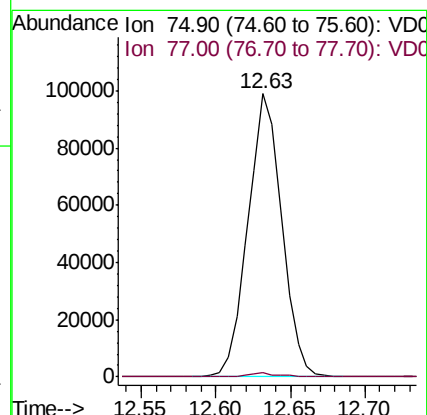
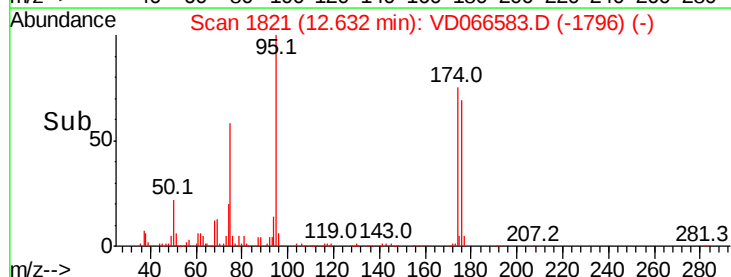
75 100

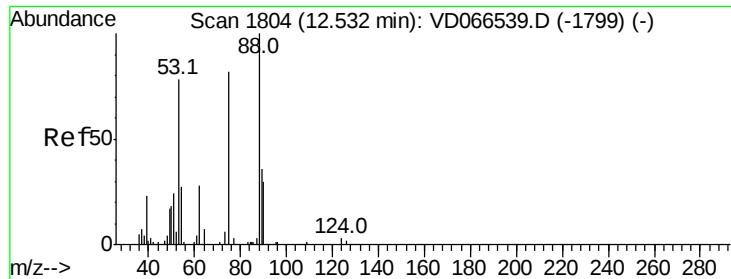
77 1.2 0.0 0.0#



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: 145.034 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066583.D

Acq: 09 Sep 2020 15:14

Instrument :

MSVOA_D

ClientSampleId :

AL-FALAH-2

Tot Ion: 75 Resp: 154829

Ion Ratio Lower Upper

75 100

53 0.2 87.0 130.4#

89 0.0 37.1 55.7#

