

Data File : VL034022.D
Acq On : 11 Jul 2019 18:01
Operator : SY/AP
Sample : K3747-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SVS-1DL

Quant Time: Jul 12 07:01:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1516298	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	3859058	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.19	117	2702139	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.53	95	2145360	9.31	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.10%

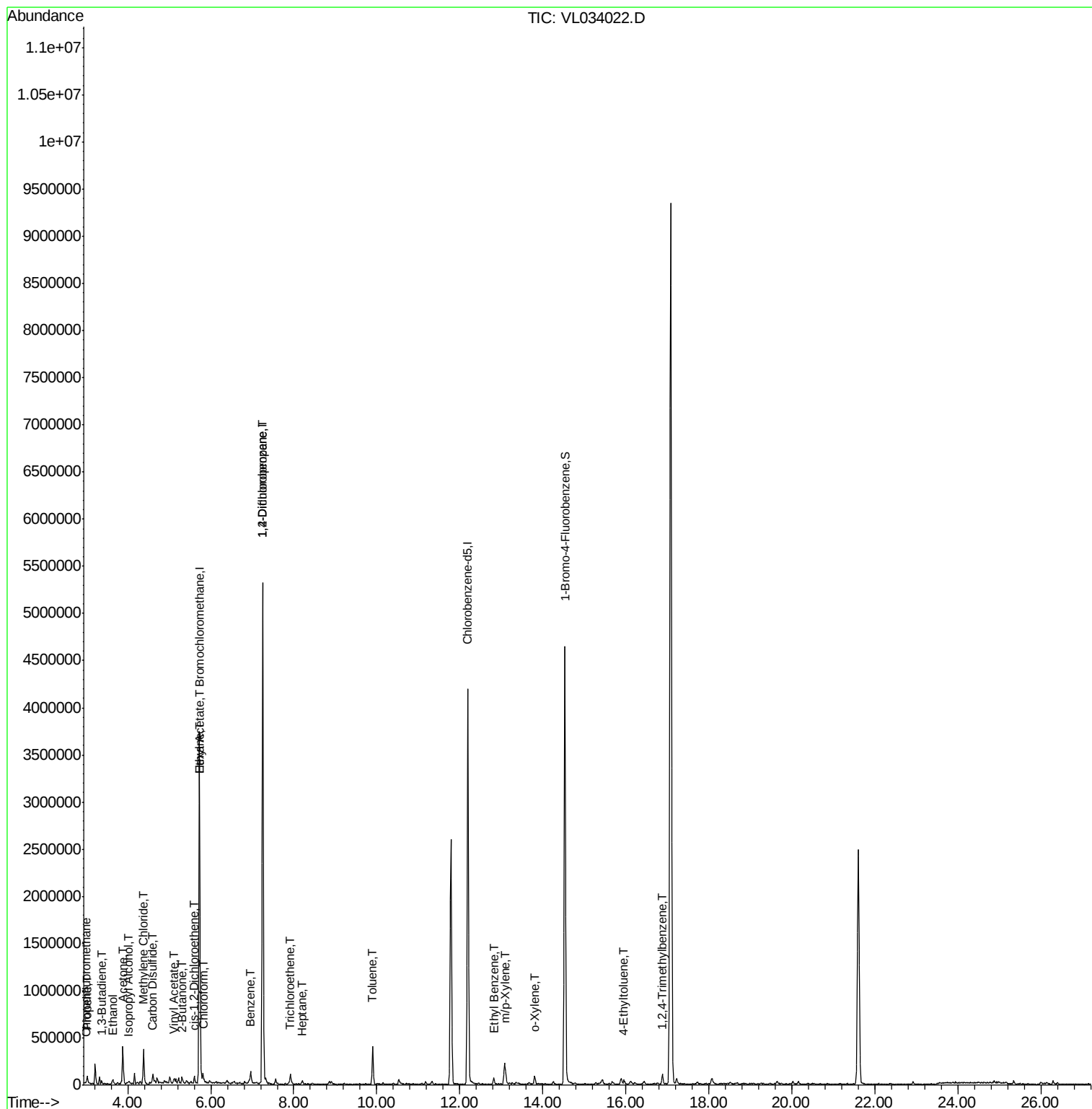
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	9256	0.049	ppbv #	88
9) Propene	3.02	41	14501	0.211	ppbv #	48
10) Heptane	8.20	43	6168	0.036	ppbv #	23
13) Ethanol	3.63	45	37353	1.746	ppbv	74
15) Acetone	3.88	43	379714	1.489	ppbv #	84
16) 1,3-Butadiene	3.36	39	3786	0.042	ppbv #	78
19) Isopropyl Alcohol	4.01	45	12034	0.070	ppbv #	94
20) Methylene Chloride	4.38	84	129814	1.168	ppbv	94
23) Vinyl Acetate	5.12	43	10754	0.042	ppbv #	82
25) Ethyl Acetate	5.74	43	73099	0.210	ppbv #	85
26) Hexane	5.74	57	102247	0.641	ppbv #	41
27) Carbon Disulfide	4.59	76	14976	0.055	ppbv #	50
29) Chloroform	5.80	83	21967	0.073	ppbv	91
31) cis-1,2-Dichloroethene	5.60	61	19819	0.129	ppbv	90
34) 2-Butanone	5.31	43	65203	0.319	ppbv	93
36) Benzene	6.96	78	86171	0.285	ppbv #	91
38) Trichloroethene	7.91	130	29298	0.218	ppbv #	71
39) 1,2-Dichloropropane	7.25	63	925521	8.243	ppbv #	24
53) Toluene	9.90	91	287379	0.831	ppbv	98
58) Ethyl Benzene	12.81	91	26659	0.082	ppbv	92
59) m/p-Xylene	13.10	91	84928	0.289	ppbv #	1
60) o-Xylene	13.80	91	24739	0.084	ppbv #	32
72) 4-Ethyltoluene	15.95	105	14493	0.038	ppbv #	52
74) 1,2,4-Trimethylbenzene	16.88	105	28342	0.073	ppbv #	78

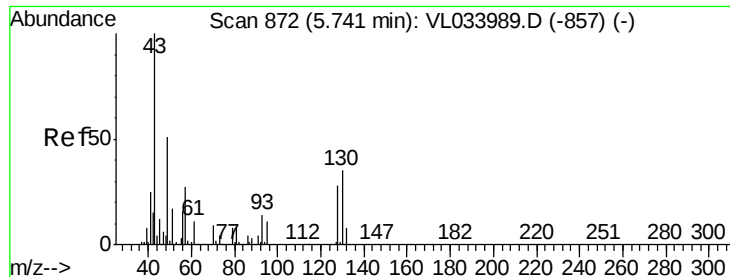
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.01 min

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SVS-1DL

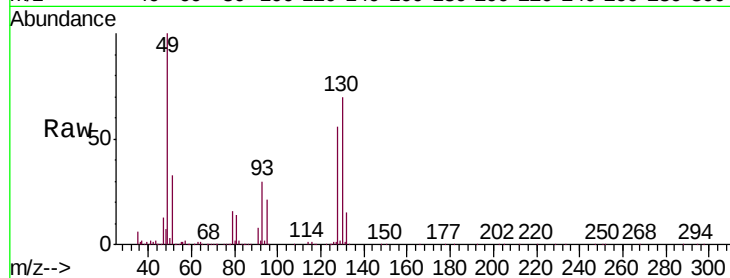
Tgt Ion: 49 Resp: 1516298

Ion Ratio Lower Upper

49 100

128 56.6 27.9 83.6

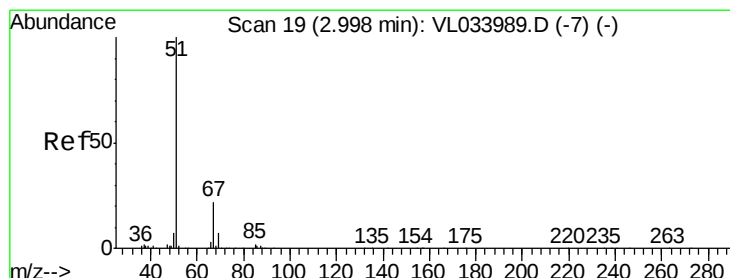
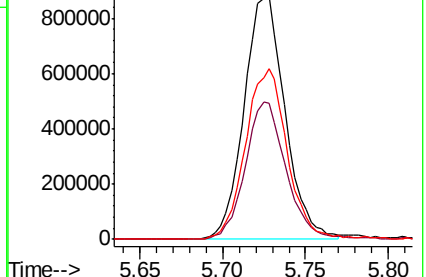
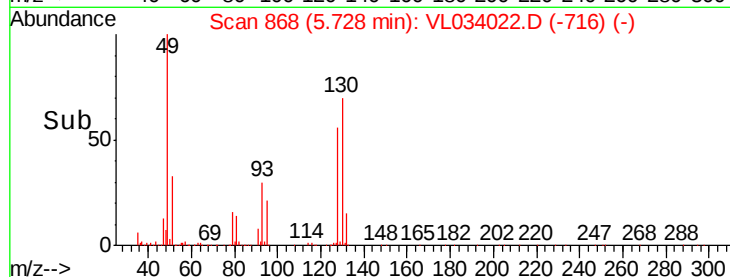
130 72.3 35.8 107.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.049 ppbv

RT: 2.99 min Scan# 18

Delta R.T. -0.00 min

Lab File: VL034022.D

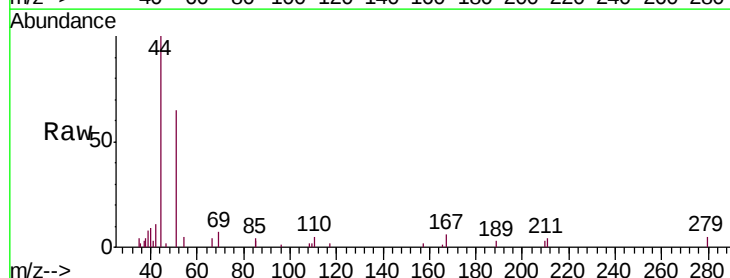
Acq: 11 Jul 2019 18:01

Tgt Ion: 51 Resp: 9256

Ion Ratio Lower Upper

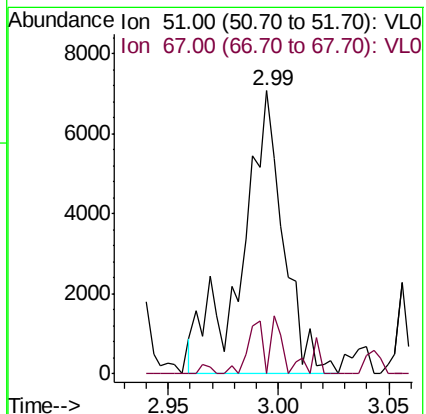
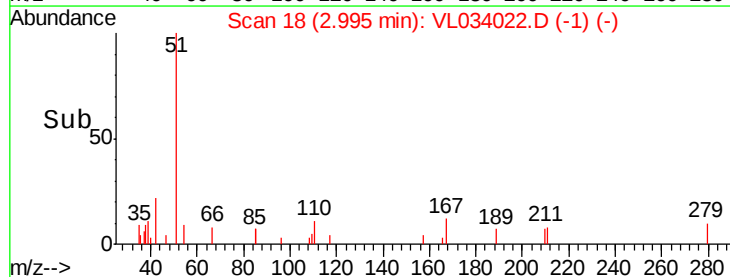
51 100

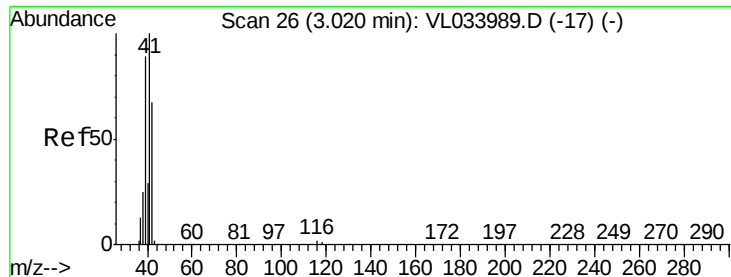
67 15.9 17.3 25.9#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.211 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

Instrument :

MSVOA_L

ClientSampleId :

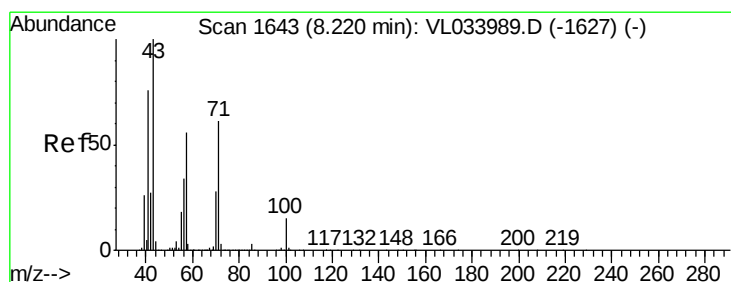
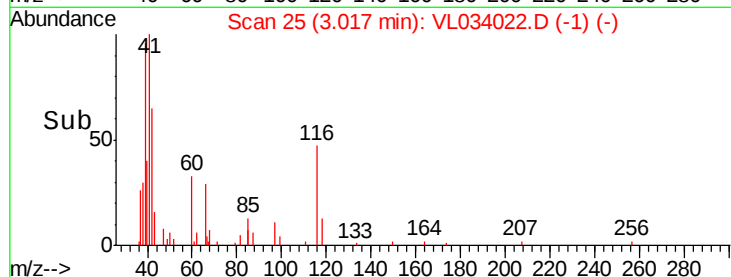
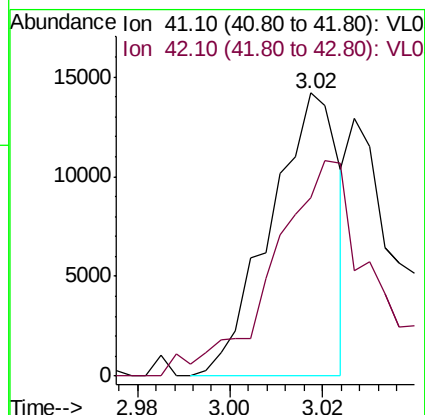
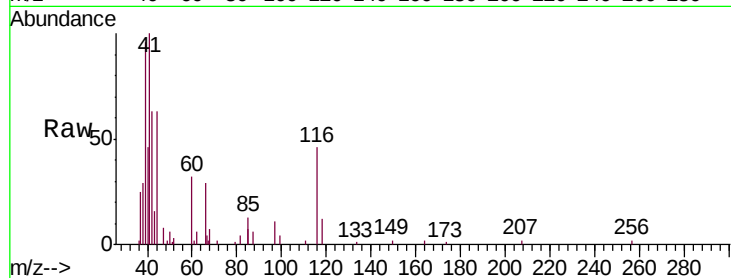
SVS-1DL

Tgt Ion: 41 Resp: 14501

Ion Ratio Lower Upper

41 100

42 114.5 57.1 85.7#



#10

Heptane

Concen: 0.036 ppbv

RT: 8.20 min Scan# 1637

Delta R.T. -0.02 min

Lab File: VL034022.D

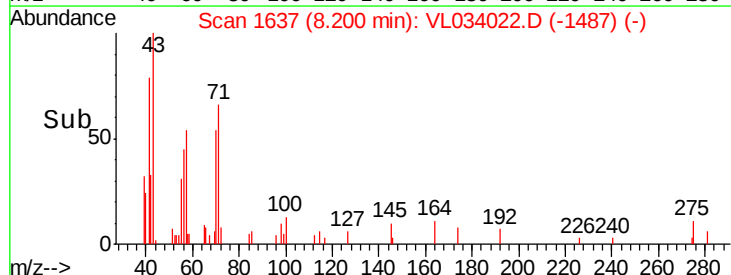
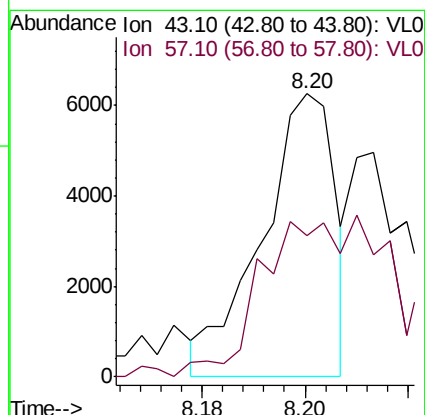
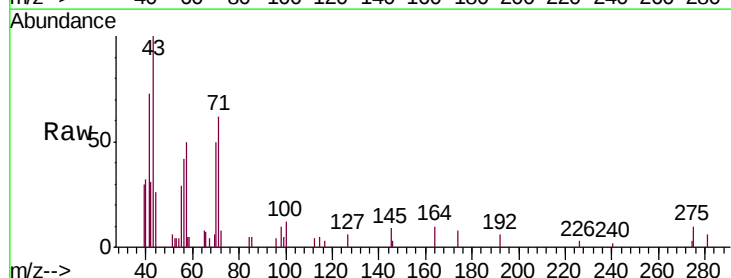
Acq: 11 Jul 2019 18:01

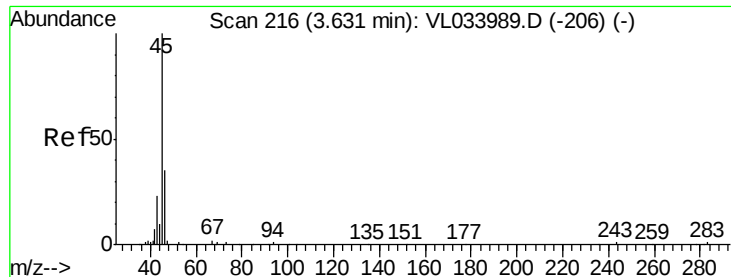
Tgt Ion: 43 Resp: 6168

Ion Ratio Lower Upper

43 100

57 0.0 44.6 66.8#

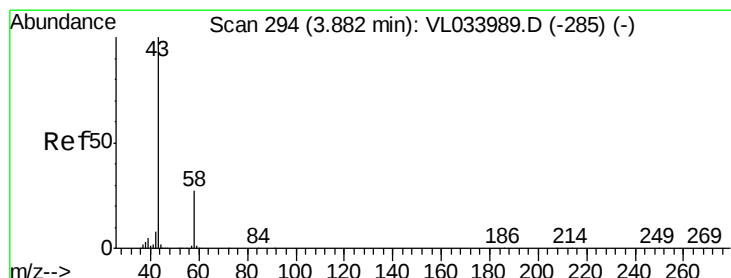
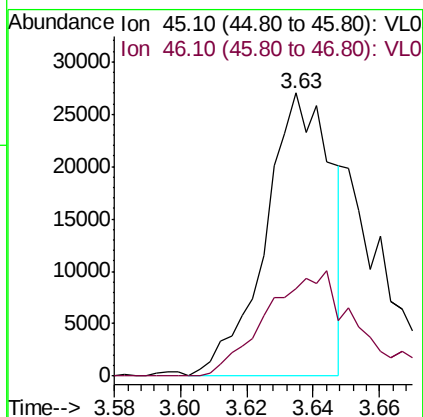
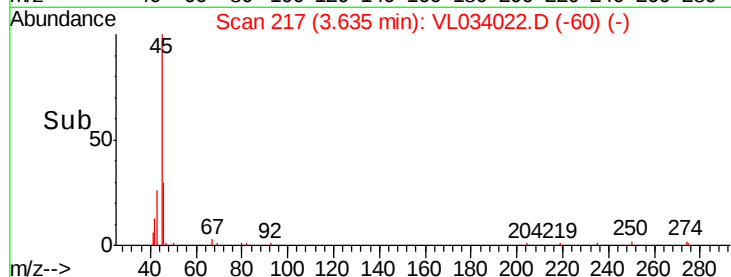
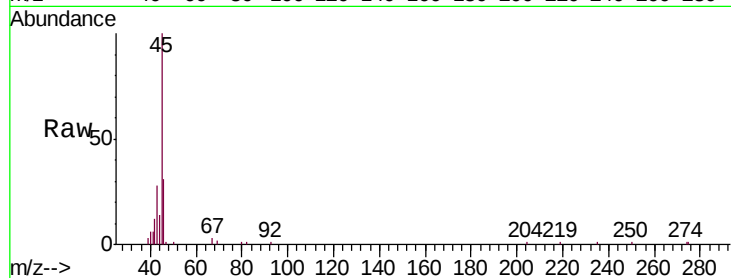




#13
Ethanol
Concen: 1.746 ppbv
RT: 3.63 min Scan# 217
Delta R.T. 0.00 min
Lab File: VL034022.D
Acq: 11 Jul 2019 18:01

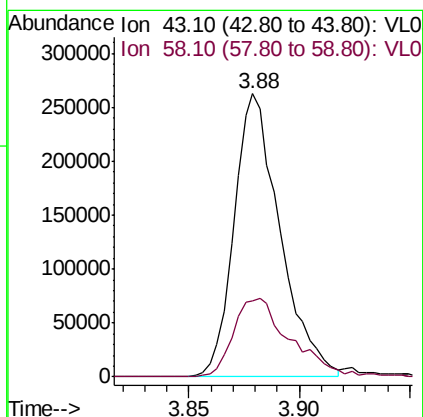
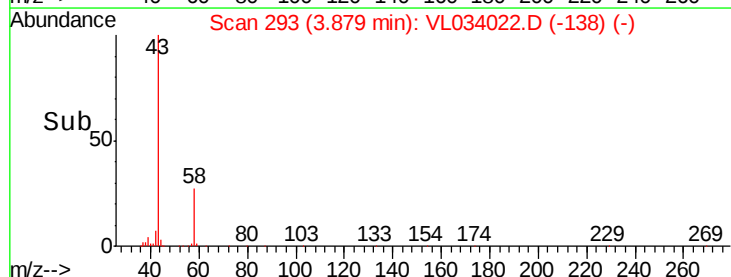
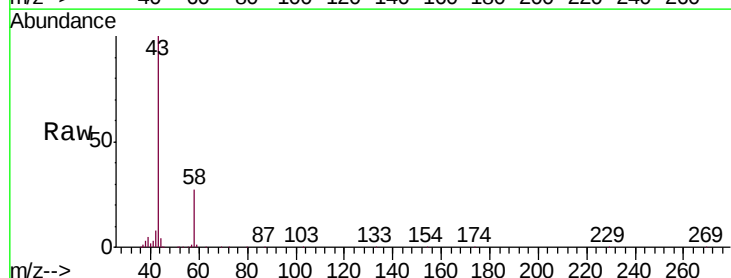
Instrument :
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ClientSampleId :
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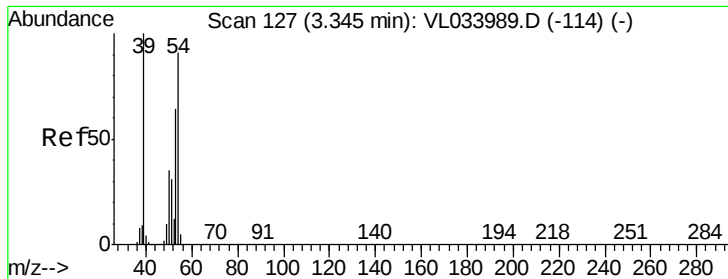
Tgt Ion: 45 Resp: 37353
Ion Ratio Lower Upper
45 100
46 56.6 16.2 64.6



#15
Acetone
Concen: 1.489 ppbv
RT: 3.88 min Scan# 293
Delta R.T. -0.00 min
Lab File: VL034022.D
Acq: 11 Jul 2019 18:01

Tgt Ion: 43 Resp: 379714
Ion Ratio Lower Upper
43 100
58 34.8 21.4 32.0#

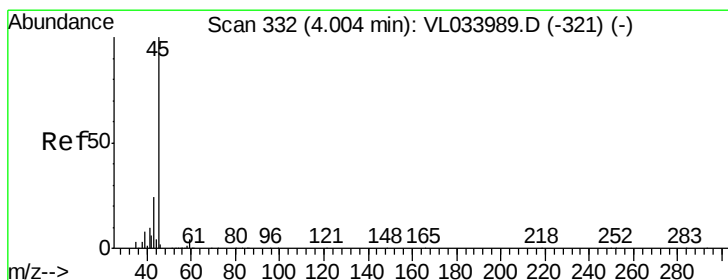
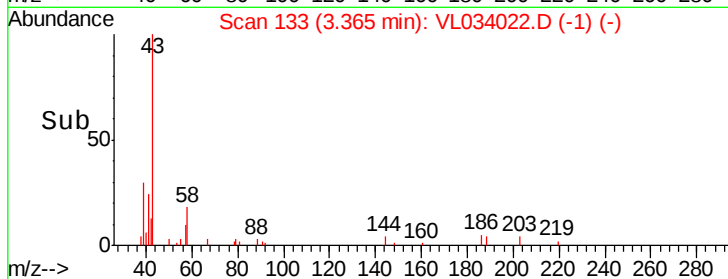
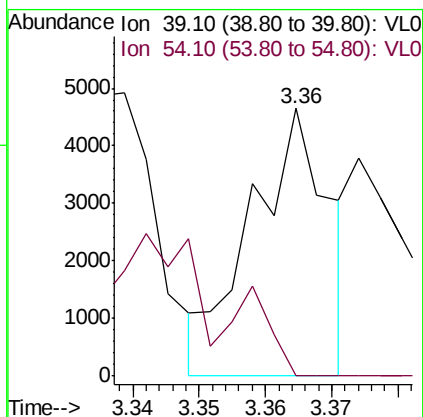
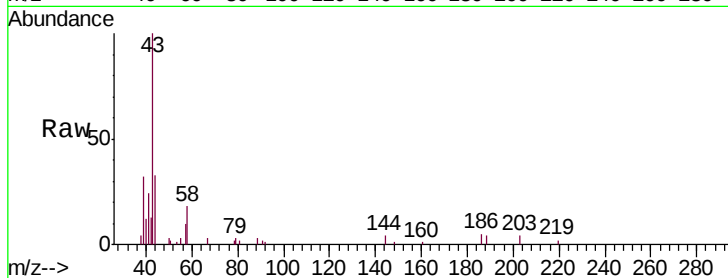




#16
 1,3-Butadiene
 Concen: 0.042 ppbv
 RT: 3.36 min Scan# 133
 Delta R.T. 0.02 min
 Lab File: VL034022.D
 Acq: 11 Jul 2019 18:01

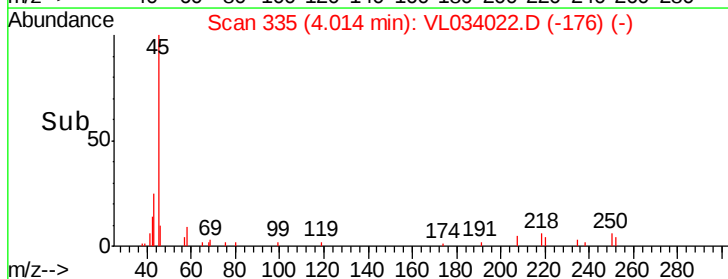
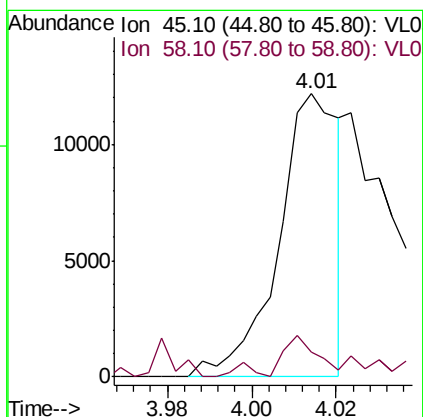
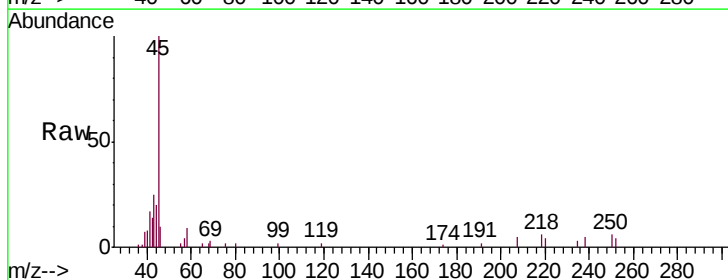
Instrument :
 MSVOA_L
 ClientSampleID :
 SVS-1DL

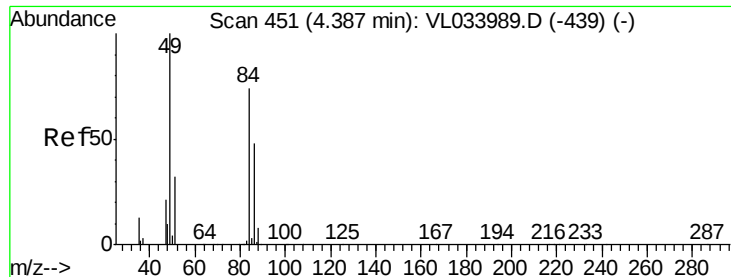
Tgt Ion: 39 Resp: 3786
 Ion Ratio Lower Upper
 39 100
 54 109.5 71.4 107.2#



#19
 Isopropyl Alcohol
 Concen: 0.070 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.01 min
 Lab File: VL034022.D
 Acq: 11 Jul 2019 18:01

Tgt Ion: 45 Resp: 12034
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.7 2.5#

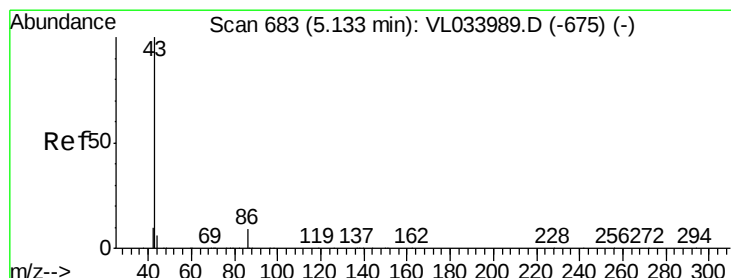
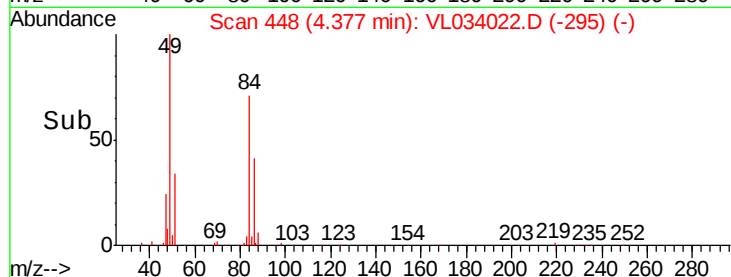
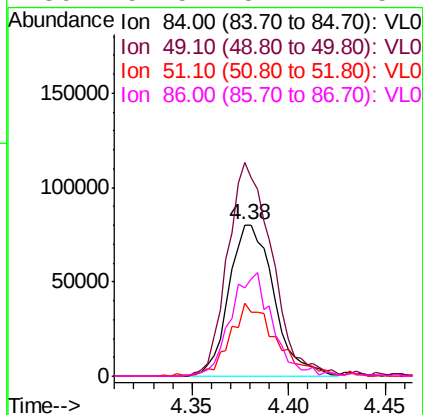
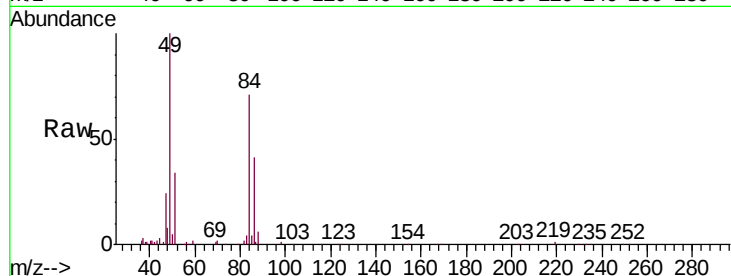




#20
Methylene Chloride
Concen: 1.168 ppbv
RT: 4.38 min Scan# 448
Delta R.T. -0.01 min
Lab File: VL034022.D
Acq: 11 Jul 2019 18:01

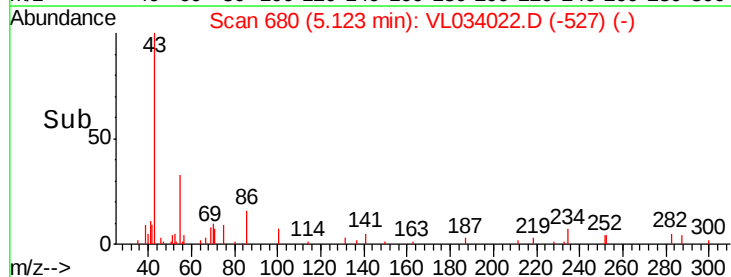
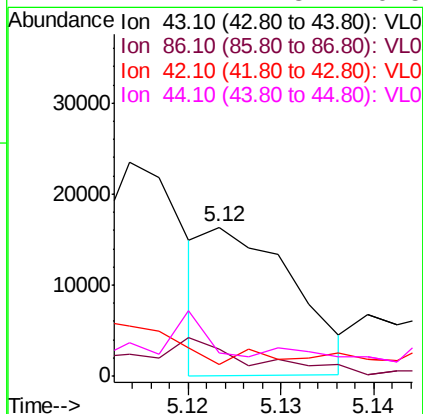
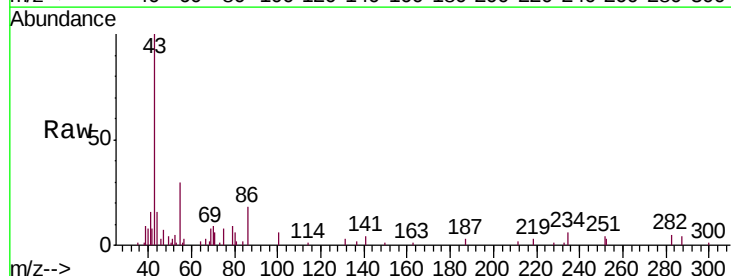
Instrument :
MSVOA_L
ClientSampleId :
SVS-1DL

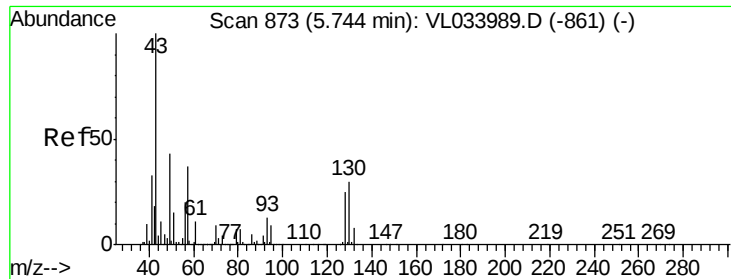
Tgt Ion:	84	Resp:	129814
Ion	Ratio	Lower	Upper
84	100		
49	140.7	107.6	161.4
51	47.5	35.0	52.6
86	57.5	52.1	78.1



#23
Vinyl Acetate
Concen: 0.042 ppbv
RT: 5.12 min Scan# 680
Delta R.T. -0.01 min
Lab File: VL034022.D
Acq: 11 Jul 2019 18:01

Tgt Ion:	43	Resp:	10754
Ion	Ratio	Lower	Upper
43	100		
86	13.7	6.6	9.8#
42	0.0	8.3	12.5#
44	4.1	4.3	6.5#





#25

Ethyl Acetate

Concen: 0.210 ppbv

RT: 5.74 min Scan# 873

Delta R.T. 0.00 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

Instrument :

MSVOA_L

ClientSampleId :

SVS-1DL

Tgt Ion: 43 Resp: 73099

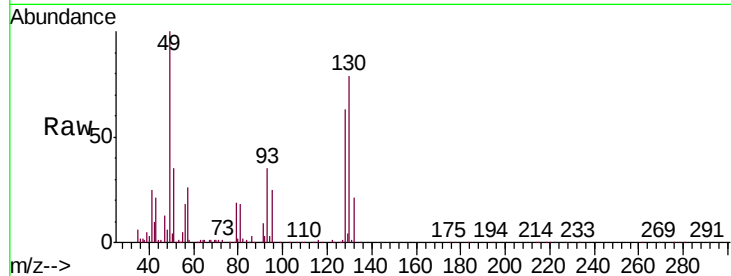
Ion Ratio Lower Upper

43 100

45 6.8 8.1 12.1#

61 2.5 8.1 12.1#

70 1.9 6.3 9.5#

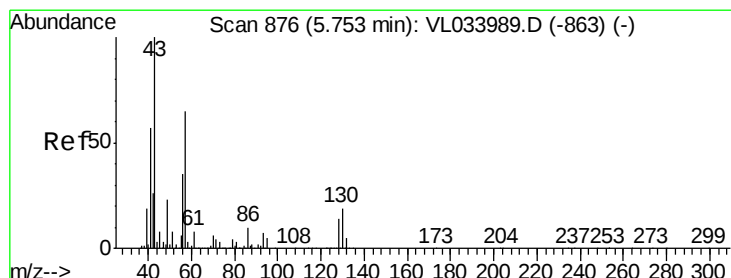
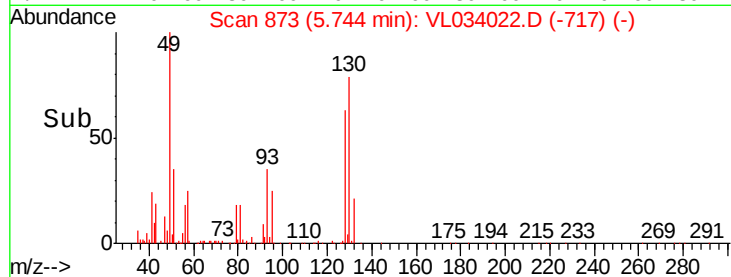
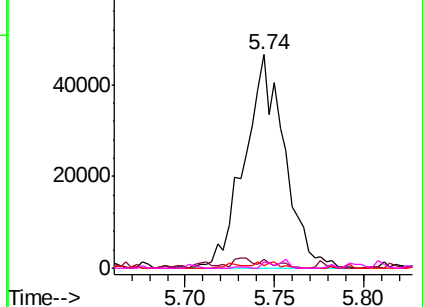


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.641 ppbv

RT: 5.74 min Scan# 873

Delta R.T. -0.01 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

Tgt Ion: 57 Resp: 102247

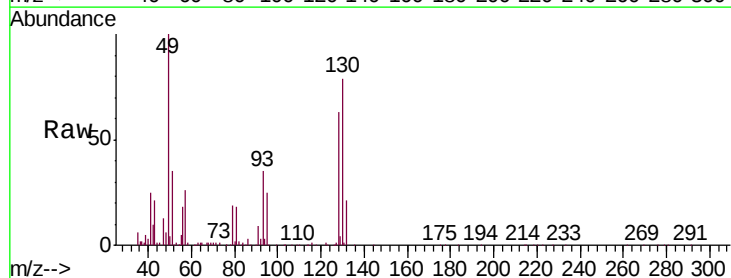
Ion Ratio Lower Upper

57 100

41 90.7 70.6 105.8

43 71.5 177.6 266.4#

56 62.9 42.6 64.0

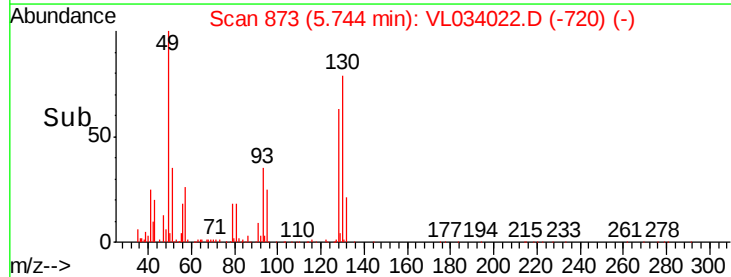
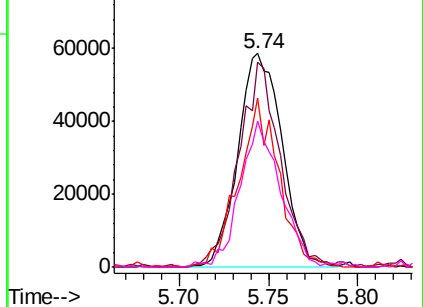


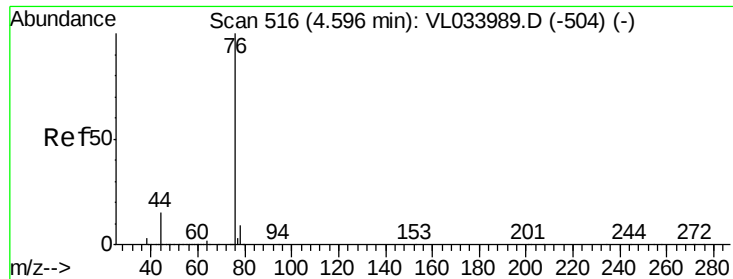
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.055 ppbv

RT: 4.59 min Scan# 513

Delta R.T. -0.01 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

Instrument :

MSVOA_L

ClientSampleId :

SVS-1DL

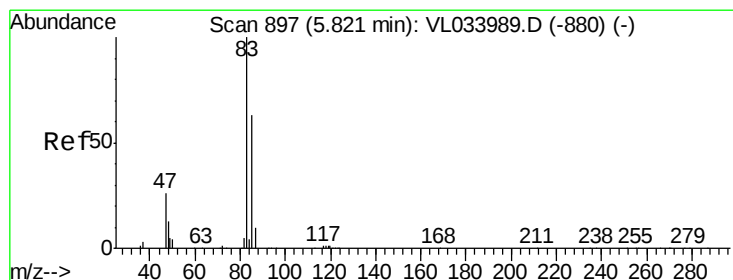
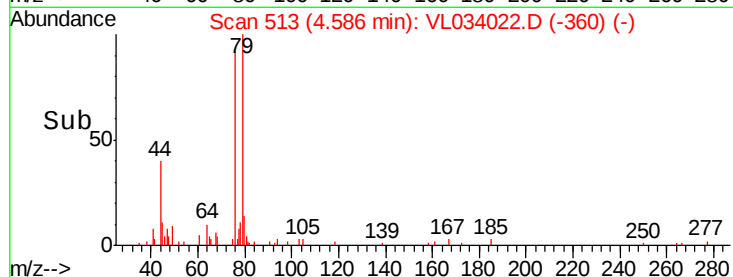
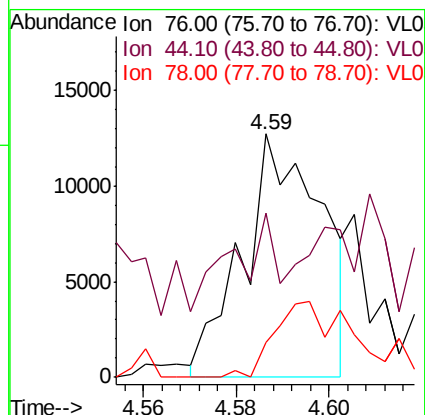
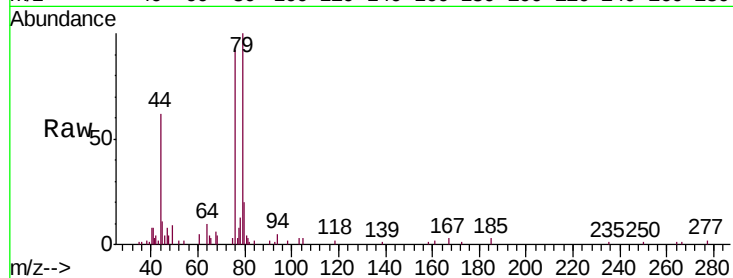
Tgt Ion: 76 Resp: 14976

Ion Ratio Lower Upper

76 100

44 0.0 12.6 18.8#

78 34.8 7.2 10.8#



#29

Chloroform

Concen: 0.073 ppbv

RT: 5.80 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL034022.D

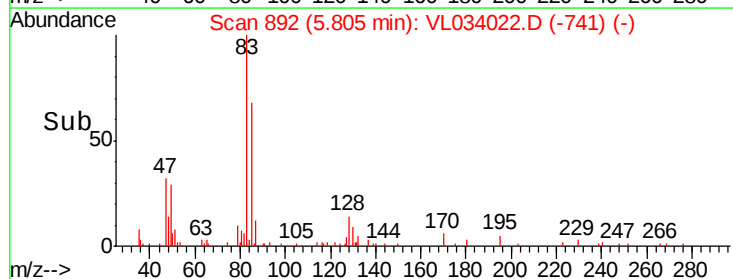
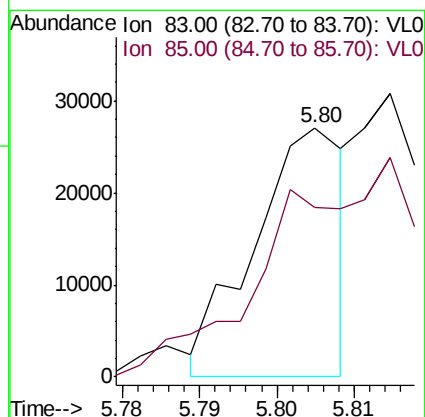
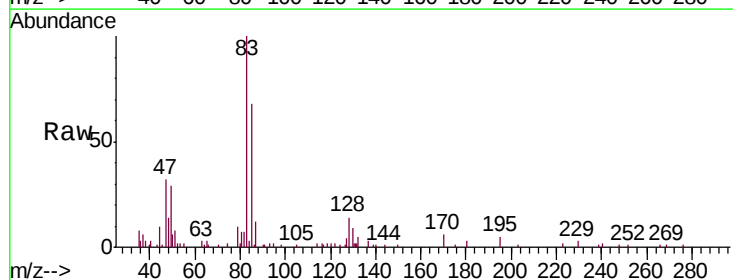
Acq: 11 Jul 2019 18:01

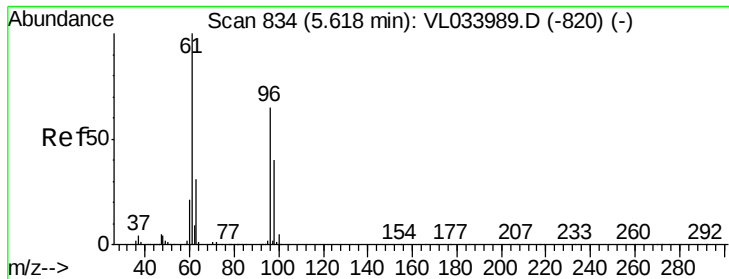
Tgt Ion: 83 Resp: 21967

Ion Ratio Lower Upper

83 100

85 55.9 50.6 75.8





#31

cis-1,2-Dichloroethene

Concen: 0.129 ppbv

RT: 5.60 min Scan# 828

Delta R.T. -0.02 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

Instrument :

MSVOA_L

ClientSampleId :

SVS-1DL

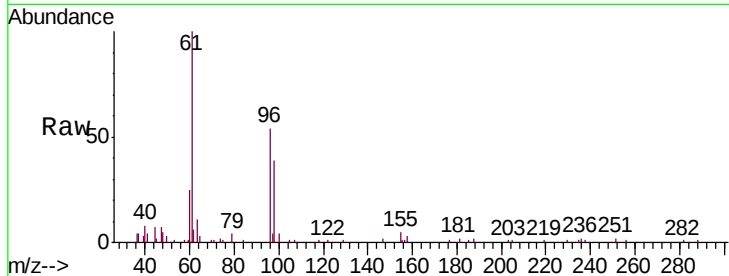
Tgt Ion: 61 Resp: 19819

Ion Ratio Lower Upper

61 100

96 52.2 51.8 77.6

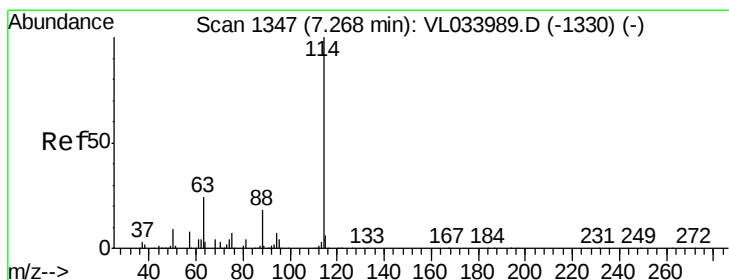
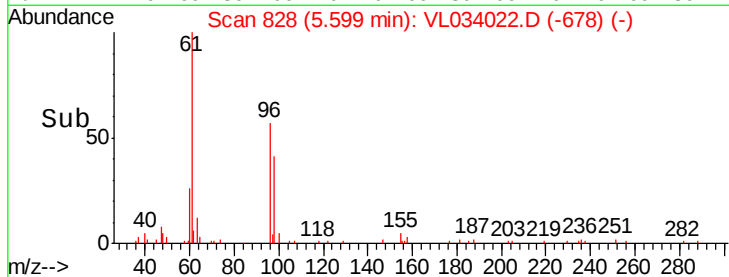
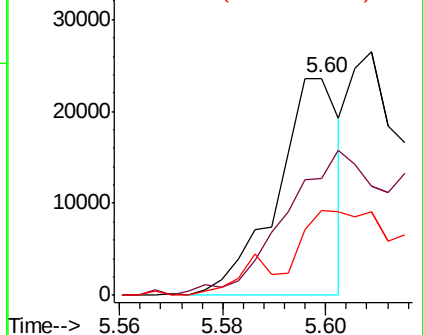
98 39.1 32.1 48.1



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.25 min Scan# 1342

Delta R.T. -0.02 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

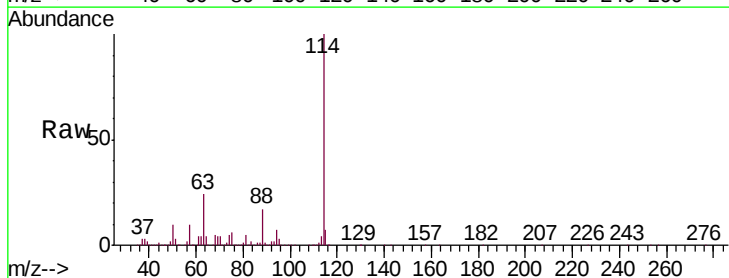
Tgt Ion: 114 Resp: 3859058

Ion Ratio Lower Upper

114 100

63 24.1 20.2 30.2

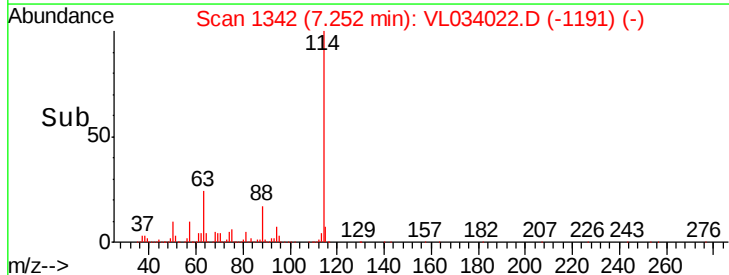
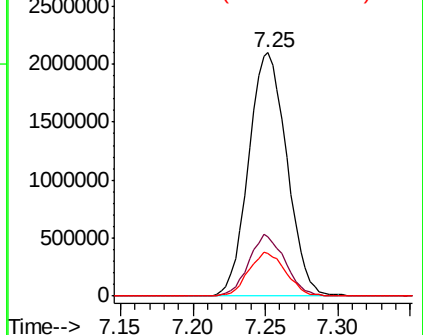
88 17.5 14.1 21.1

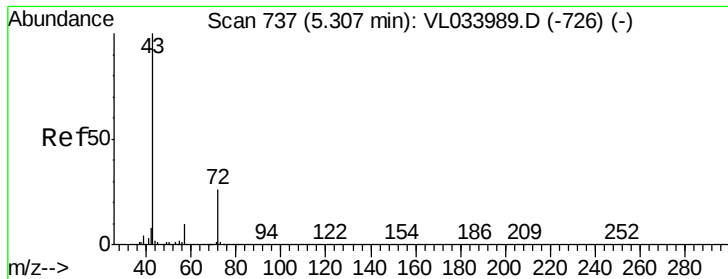


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.319 ppbv

RT: 5.31 min Scan# 737

Delta R.T. 0.00 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

Instrument :

MSVOA_L

ClientSampleId :

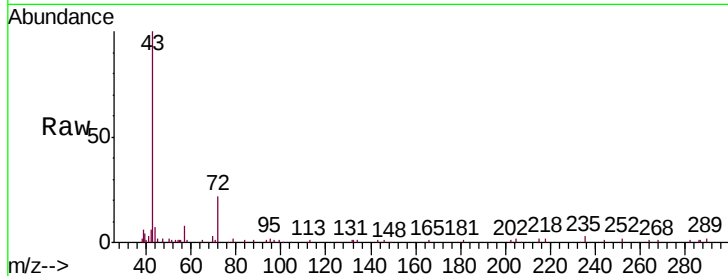
SVS-1DL

Tgt Ion: 43 Resp: 65203

Ion Ratio Lower Upper

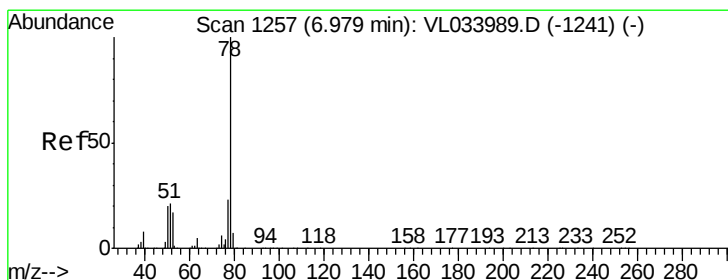
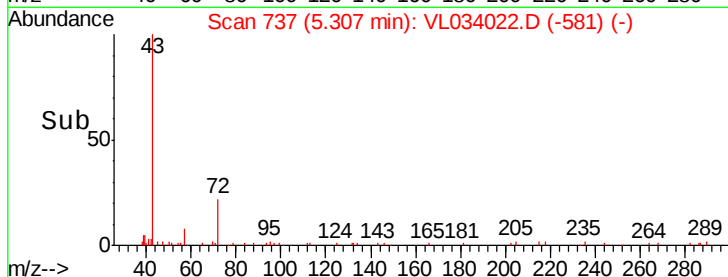
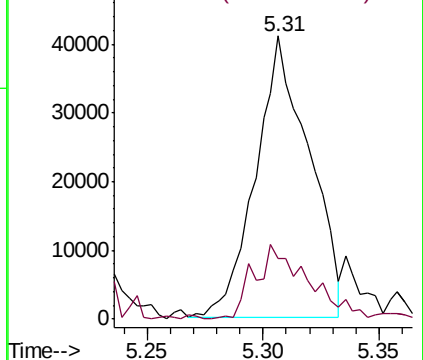
43 100

72 28.4 19.9 29.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#36

Benzene

Concen: 0.285 ppbv

RT: 6.96 min Scan# 1252

Delta R.T. -0.02 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

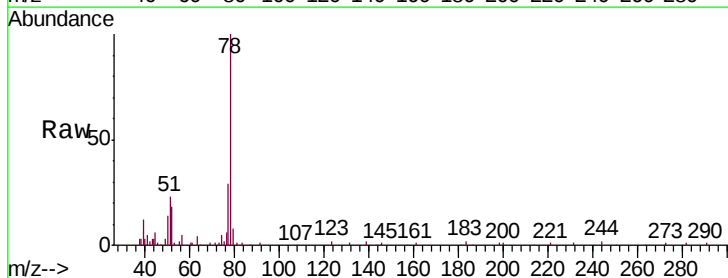
Tgt Ion: 78 Resp: 86171

Ion Ratio Lower Upper

78 100

77 26.4 18.7 28.1

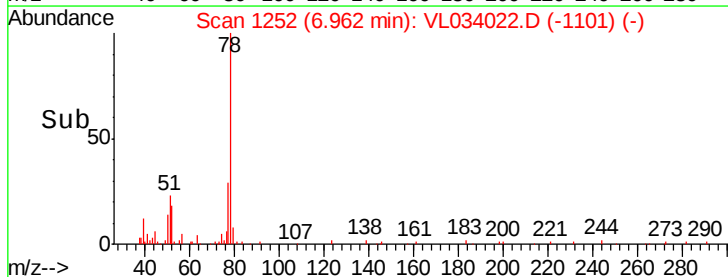
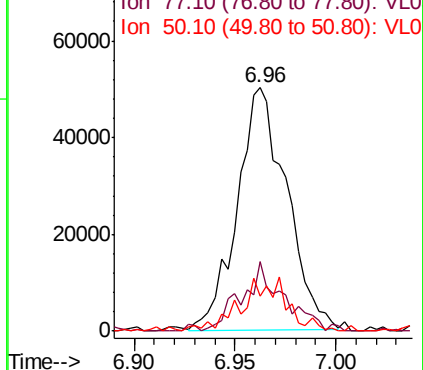
50 14.3 16.2 24.2#

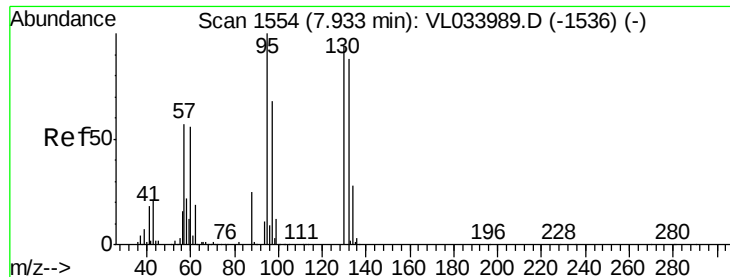


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#38

Trichloroethene

Concen: 0.218 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.02 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

Instrument :

MSVOA_L

ClientSampleId :

SVS-1DL

Tgt Ion:130 Resp: 29298

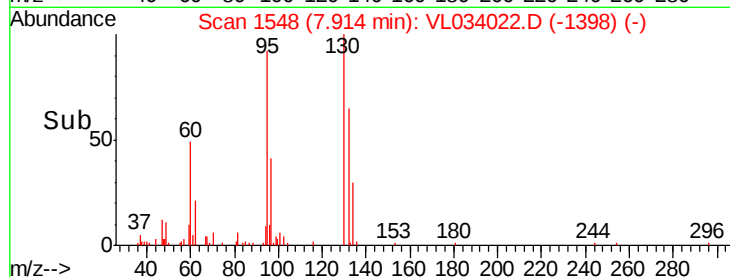
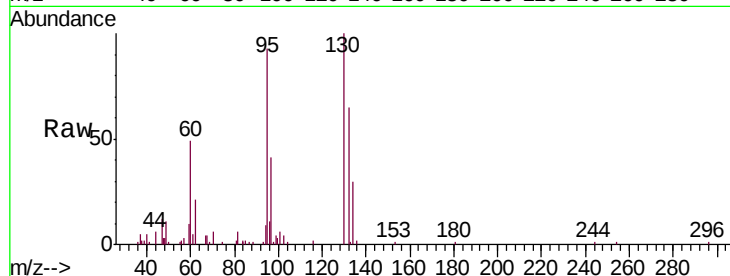
Ion Ratio Lower Upper

130 100

95 88.8 85.5 128.3

132 61.3 75.1 112.7#

97 39.0 58.1 87.1#

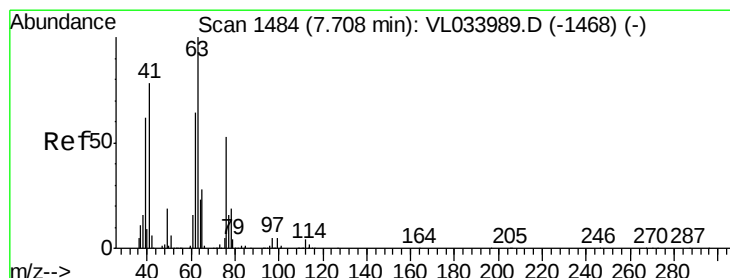
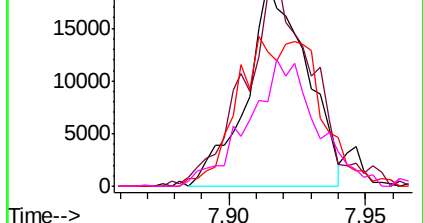


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 8.243 ppbv

RT: 7.25 min Scan# 1341

Delta R.T. -0.46 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

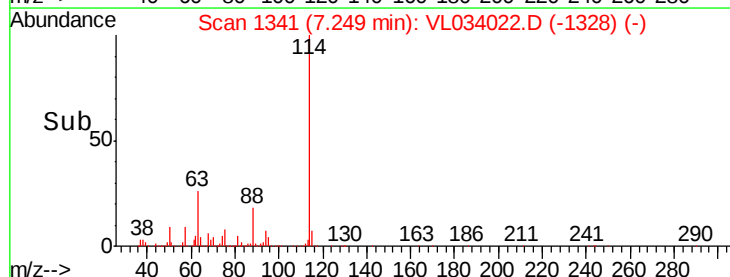
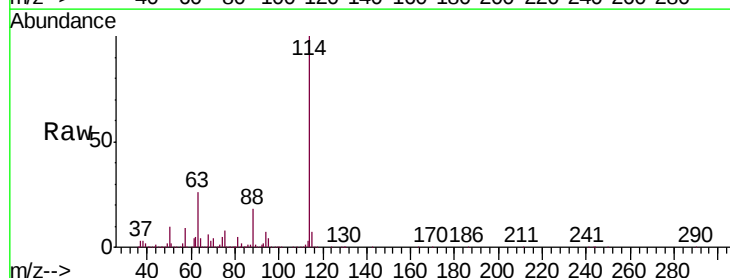
Tgt Ion: 63 Resp: 925521

Ion Ratio Lower Upper

63 100

41 0.1 62.3 93.5#

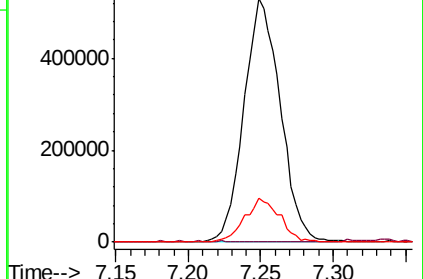
62 17.9 51.4 77.2#

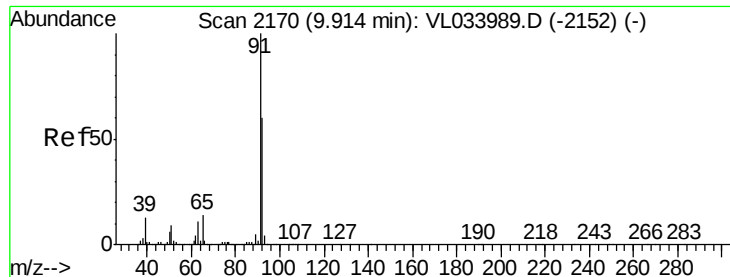


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.831 ppbv

RT: 9.90 min Scan# 2167

Delta R.T. -0.01 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

Instrument :

MSVOA_L

ClientSampleId :

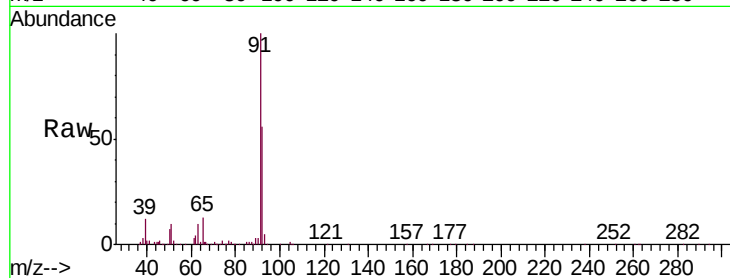
SVS-1DL

Tgt Ion: 91 Resp: 287379

Ion Ratio Lower Upper

91 100

92 61.0 47.7 71.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

150000

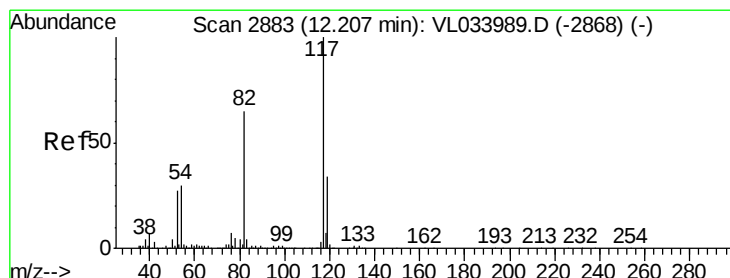
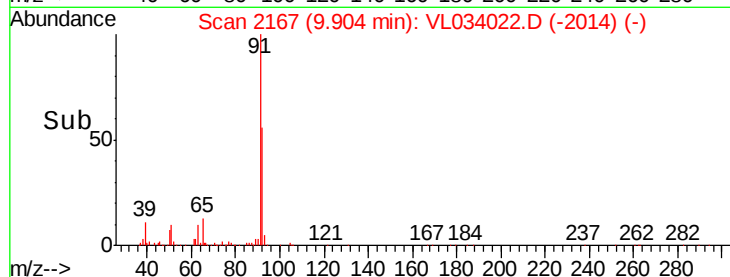
100000

50000

0

9.85 9.90 9.95

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.19 min Scan# 2878

Delta R.T. -0.02 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

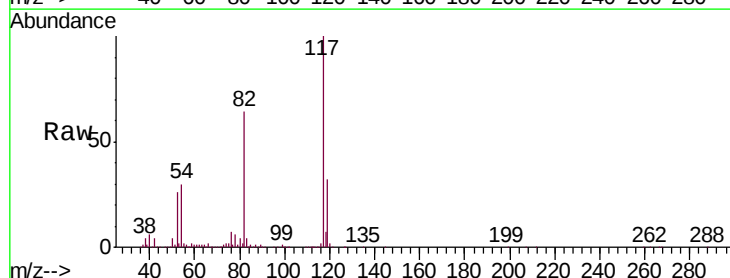
Tgt Ion: 117 Resp: 2702139

Ion Ratio Lower Upper

117 100

82 65.2 50.8 76.2

119 32.1 24.0 36.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

1500000

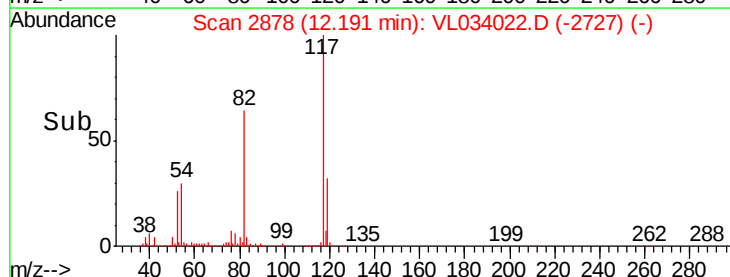
1000000

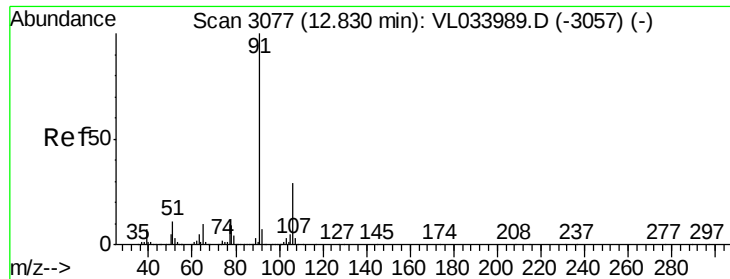
500000

0

12.10 12.20 12.30

Time-->





#58

Ethyl Benzene

Concen: 0.082 ppbv

RT: 12.81 min Scan# 3071

Delta R.T. -0.02 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

Instrument :

MSVOA_L

ClientSampleId :

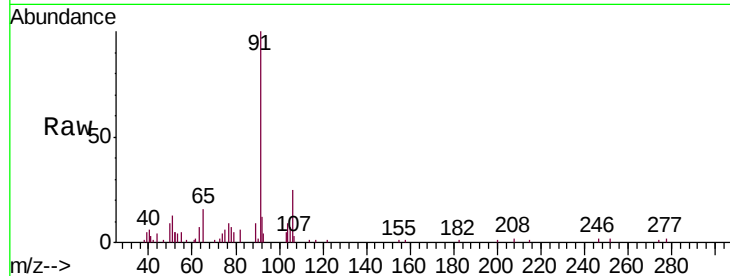
SVS-1DL

Tgt Ion: 91 Resp: 26659

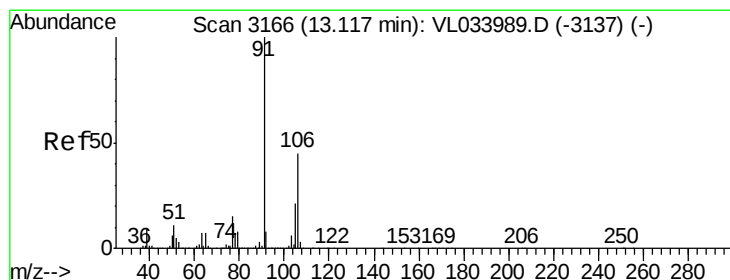
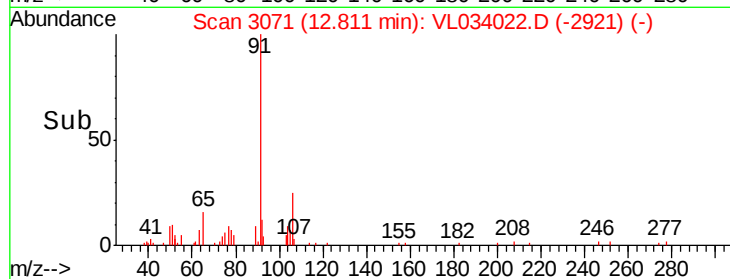
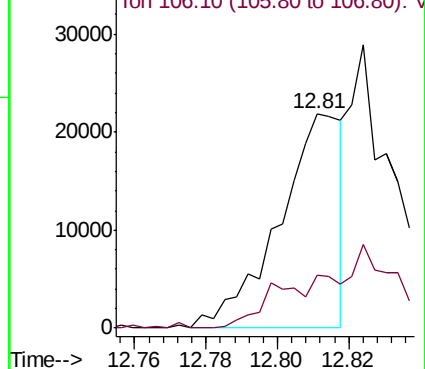
Ion Ratio Lower Upper

91 100

106 25.0 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0



#59

m/p-Xylene

Concen: 0.289 ppbv

RT: 13.10 min Scan# 3161

Delta R.T. -0.02 min

Lab File: VL034022.D

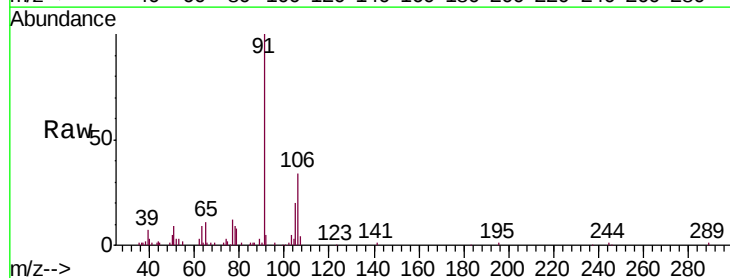
Acq: 11 Jul 2019 18:01

Tgt Ion: 91 Resp: 84928

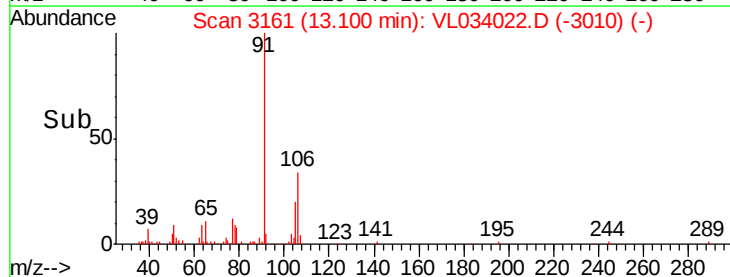
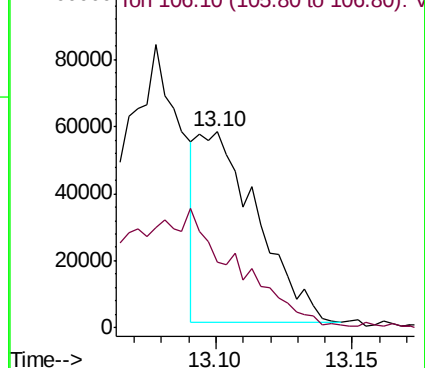
Ion Ratio Lower Upper

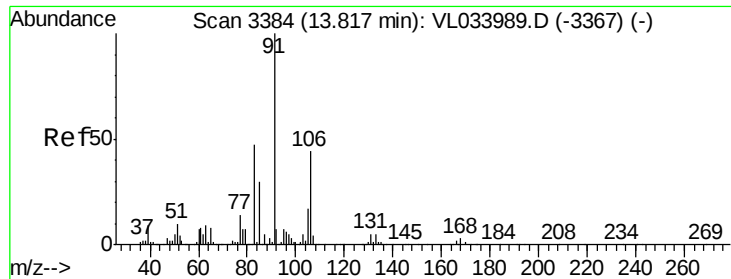
91 100

106 126.4 35.7 53.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

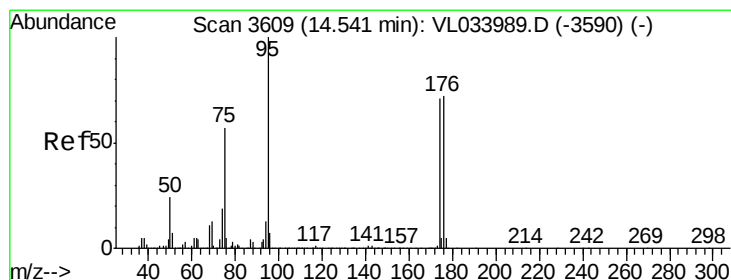
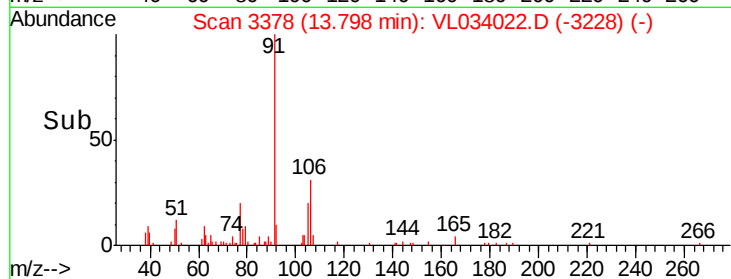
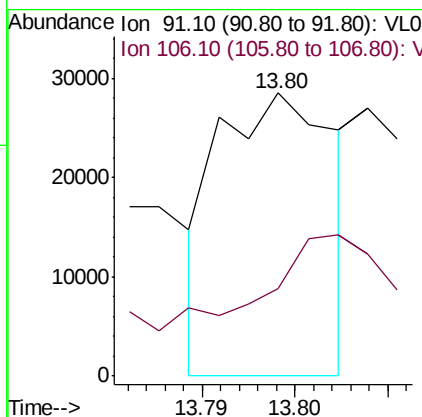
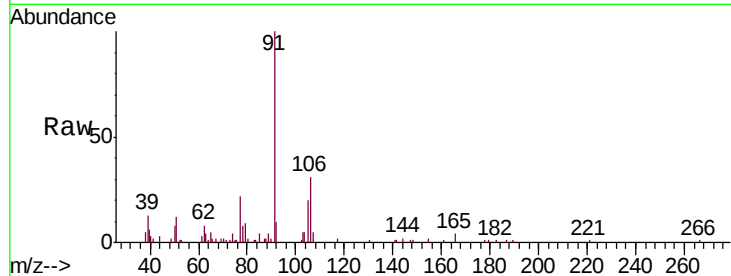




#60
o-Xylene
Concen: 0.084 ppbv
RT: 13.80 min Scan# 3378
Delta R.T. -0.02 min
Lab File: VL034022.D
Acq: 11 Jul 2019 18:01

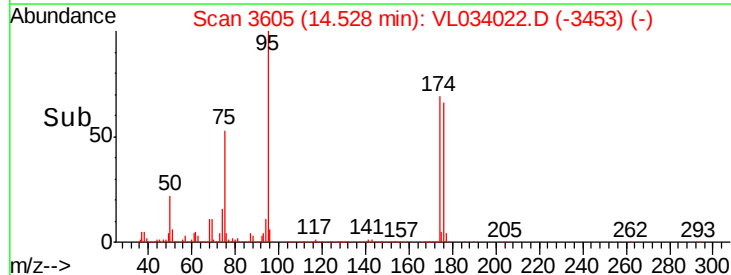
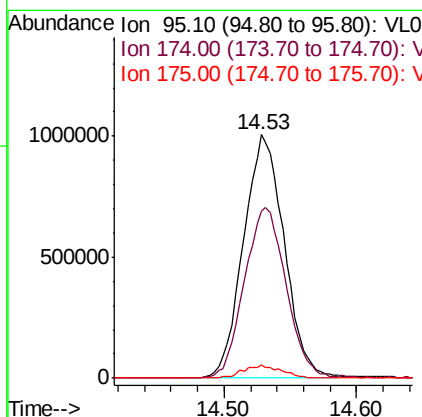
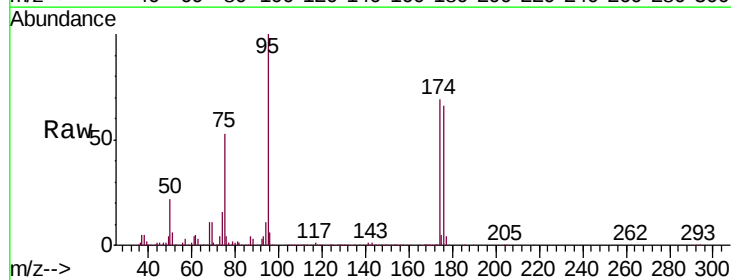
Instrument :
MSVOA_L
ClientSampleId :
SVS-1DL

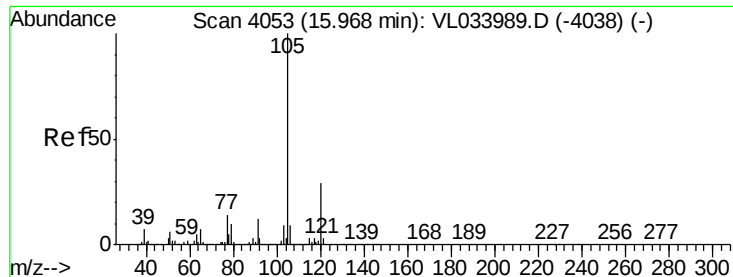
Tgt Ion: 91 Resp: 24739
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.309 ppbv
RT: 14.53 min Scan# 3605
Delta R.T. -0.01 min
Lab File: VL034022.D
Acq: 11 Jul 2019 18:01

Tgt Ion: 95 Resp: 2145360
Ion Ratio Lower Upper
95 100
174 72.9 60.5 90.7
175 5.1 4.0 6.0





#72

4-Ethyltoluene

Concen: 0.038 ppbv

RT: 15.95 min Scan# 4046

Delta R.T. -0.02 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

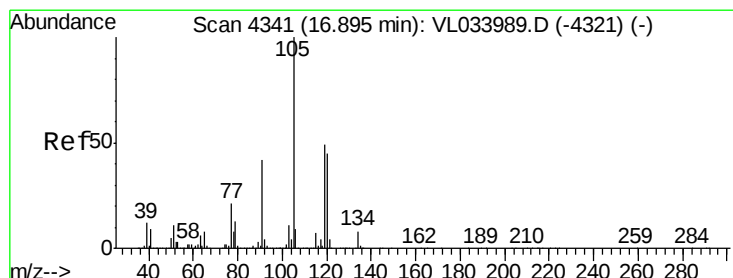
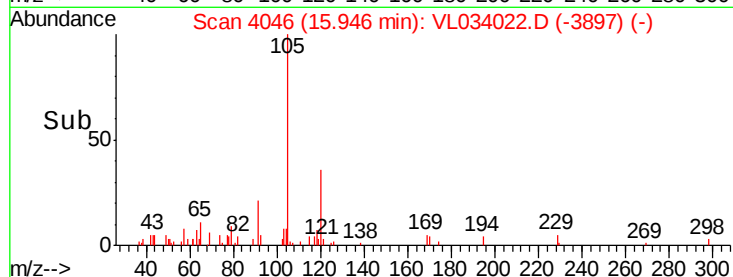
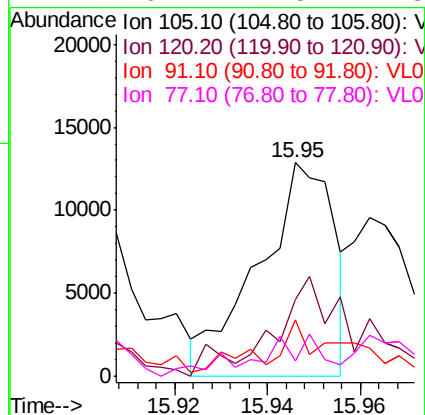
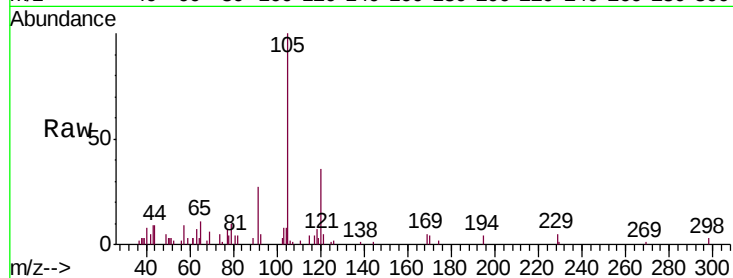
Instrument :

MSVOA_L

ClientSampleId :

SVS-1DL

Tgt Ion:	105	Resp:	14493
Ion	Ratio	Lower	Upper
105	100		
120	56.0	24.1	36.1#
91	0.0	10.6	16.0#
77	40.2	11.5	17.3#



#74

1,2,4-Trimethylbenzene

Concen: 0.073 ppbv

RT: 16.88 min Scan# 4335

Delta R.T. -0.02 min

Lab File: VL034022.D

Acq: 11 Jul 2019 18:01

Tgt Ion:	105	Resp:	28342
Ion	Ratio	Lower	Upper
105	100		
120	36.2	36.2	54.2
91	18.1	34.3	51.5#
77	19.9	17.1	25.7

