

Data File : VL034642.D
Acq On : 19 Feb 2020 2:56
Operator : SY/AP
Sample : L1554-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

Quant Time: Feb 19 06:08:17 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1103611	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2439588	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2519310	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2083448	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds

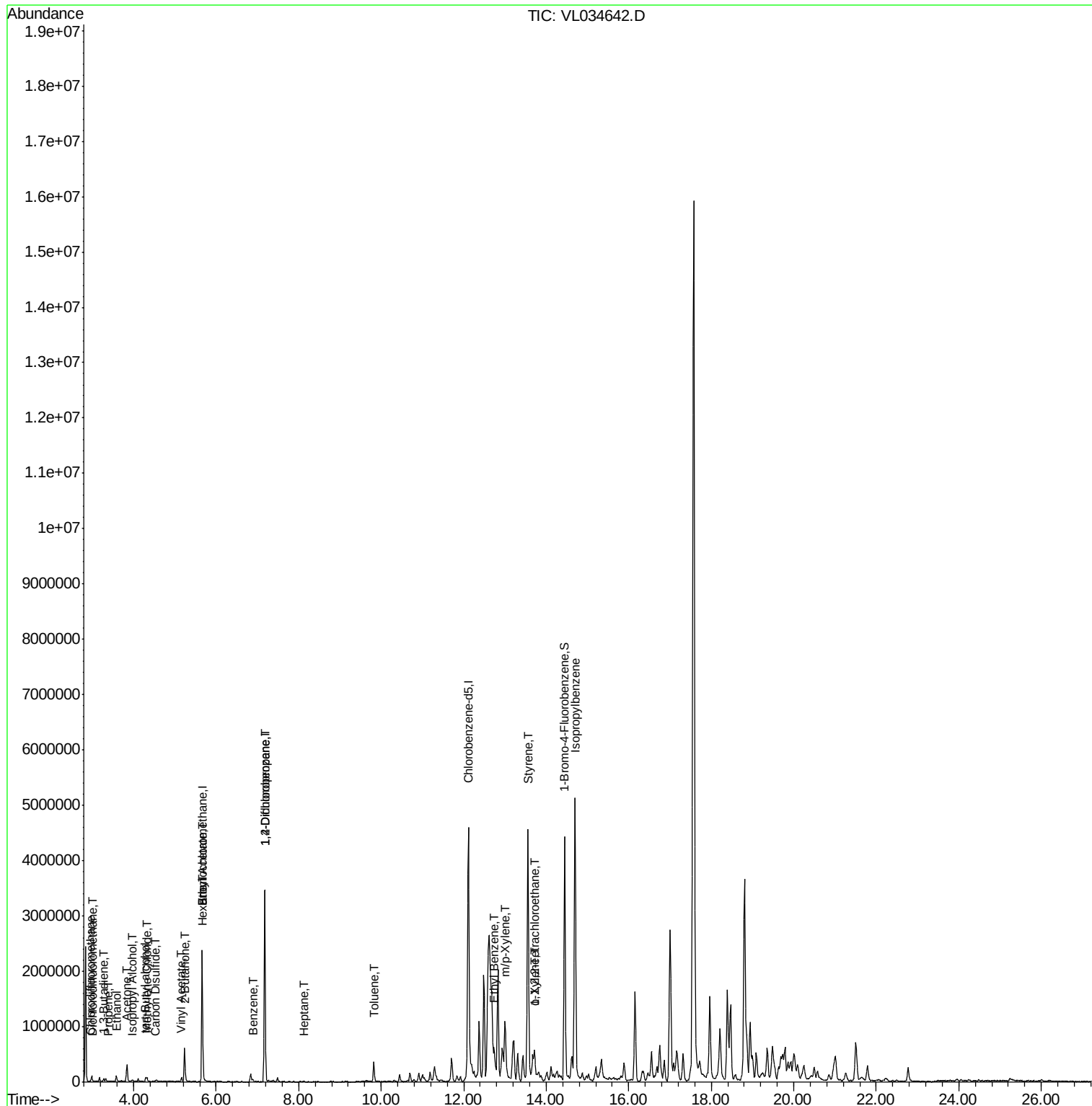
						Qvalue
2) Dichlorodifluoromethane	3.01	85	10738	0.044	ppbv	96
3) Chlorodifluoromethane	2.95	51	7652	0.057	ppbv #	89
9) Propene	3.40	41	1624	0.031	ppbv	98
10) Heptane	8.12	43	4839	0.037	ppbv #	80
13) Ethanol	3.58	45	104026	7.480	ppbv	96
15) Acetone	3.83	43	259488	1.600	ppbv	95
16) 1,3-Butadiene	3.29	39	2358	0.037	ppbv #	8
17) tert-Butyl alcohol	4.29	59	55468	0.465	ppbv #	83
19) Isopropyl Alcohol	3.97	45	5837	0.062	ppbv #	94
20) Methylene Chloride	4.31	84	6382	0.103	ppbv #	71
23) Vinyl Acetate	5.16	43	20069	0.108	ppbv #	24
25) Ethyl Acetate	5.67	43	8441	0.032	ppbv #	1
26) Hexane	5.67	57	5101	0.046	ppbv #	1
27) Carbon Disulfide	4.53	76	7662	0.052	ppbv #	36
34) 2-Butanone	5.23	43	699231	3.947	ppbv	99
36) Benzene	6.90	78	7858	0.036	ppbv #	79
39) 1,2-Dichloropropane	7.18	63	645167	7.174	ppbv #	19
53) Toluene	9.83	91	269247	1.130	ppbv	99
58) Ethyl Benzene	12.73	91	328760	0.975	ppbv	98
59) m/p-Xylene	13.00	91	317457	1.065	ppbv #	83
60) o-Xylene	13.72	91	76616	0.256	ppbv #	50
61) Styrene	13.55	104	2635674	13.208	ppbv	97
62) Isopropylbenzene	14.70	105	4520904	11.657	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	14171	0.061	ppbv #	25

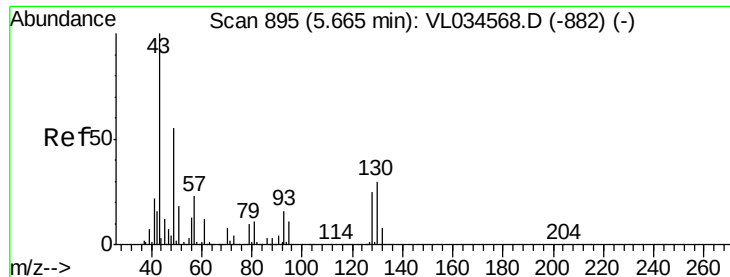
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL034642.D

Acq: 19 Feb 2020 2:56

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

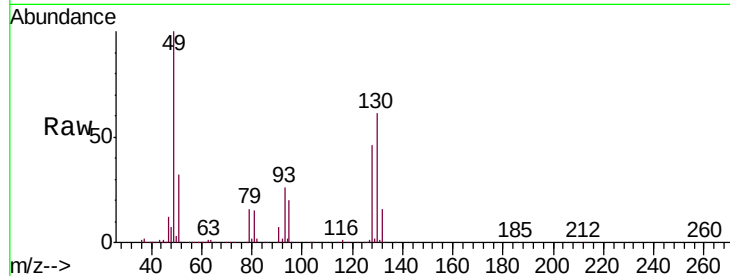
Tgt Ion: 49 Resp: 1103611

Ion Ratio Lower Upper

49 100

128 47.7 22.7 68.1

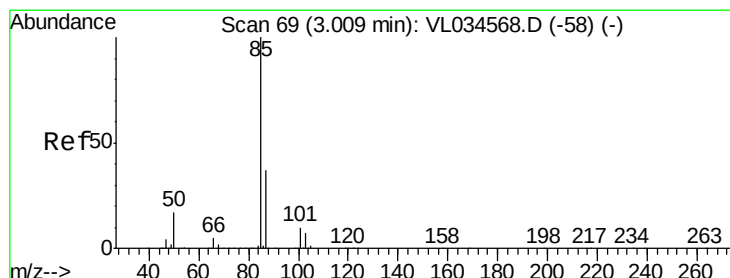
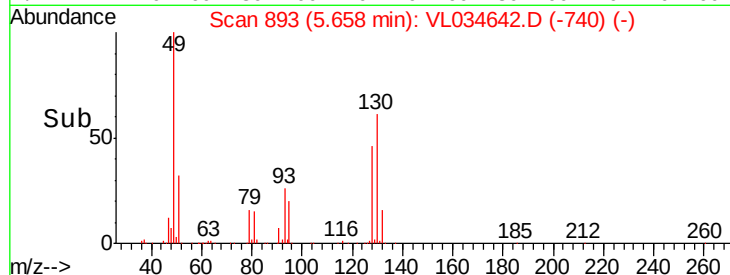
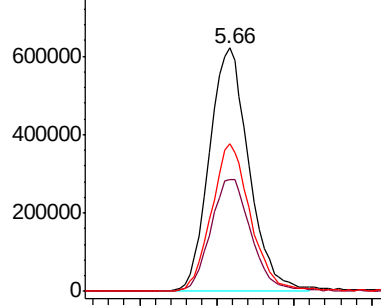
130 60.9 28.6 85.8



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



#2

Dichlorodifluoromethane

Concen: 0.044 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL034642.D

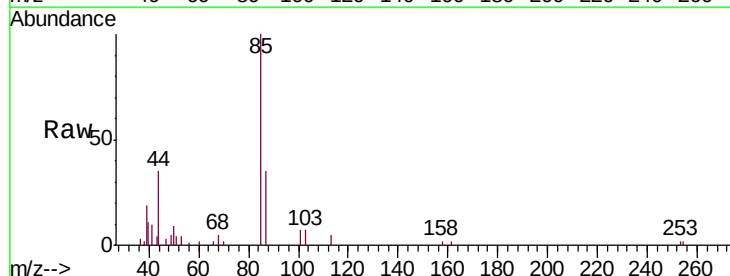
Acq: 19 Feb 2020 2:56

Tgt Ion: 85 Resp: 10738

Ion Ratio Lower Upper

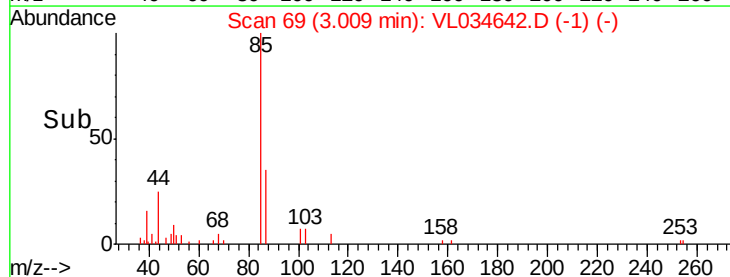
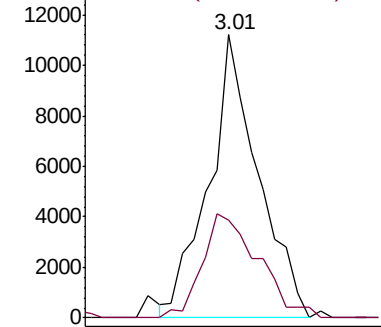
85 100

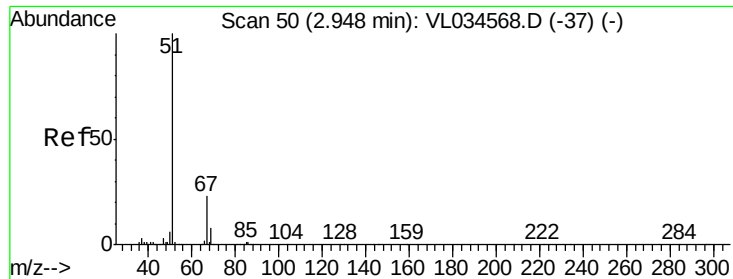
87 34.5 29.5 44.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.057 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.01 min

Lab File: VL034642.D

Acq: 19 Feb 2020 2:56

Instrument :

MSVOA_L

ClientSampleId :

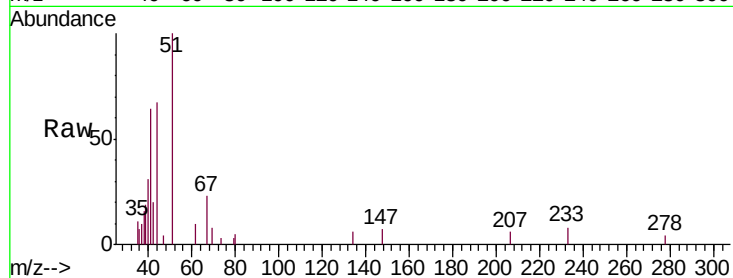
SS-2DL

Tgt Ion: 51 Resp: 7652

Ion Ratio Lower Upper

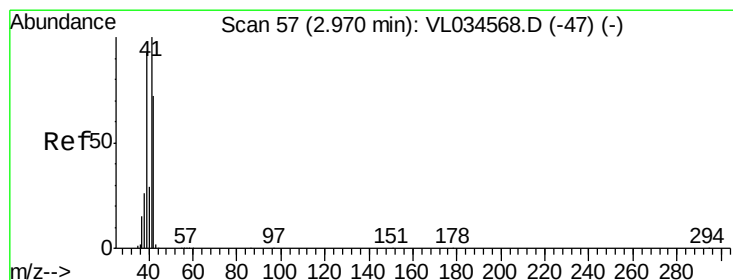
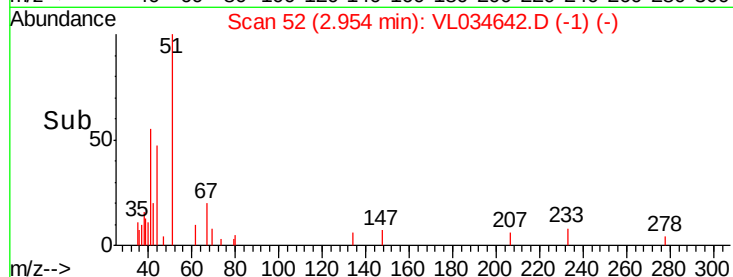
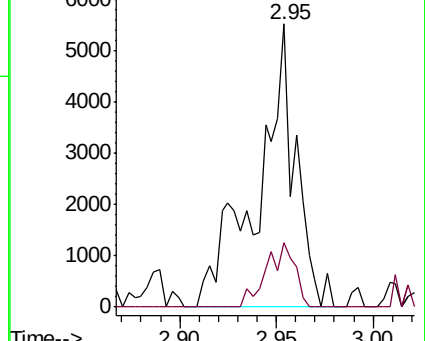
51 100

67 16.9 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.031 ppbv

RT: 3.40 min Scan# 190

Delta R.T. 0.43 min

Lab File: VL034642.D

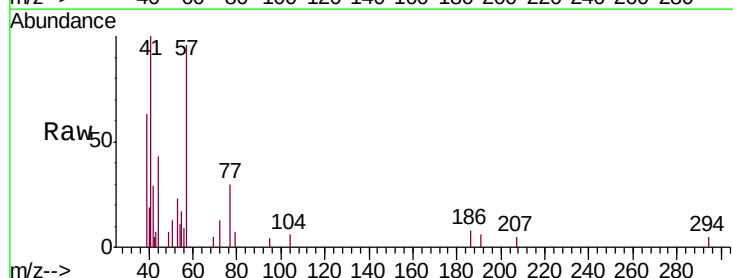
Acq: 19 Feb 2020 2:56

Tgt Ion: 41 Resp: 1624

Ion Ratio Lower Upper

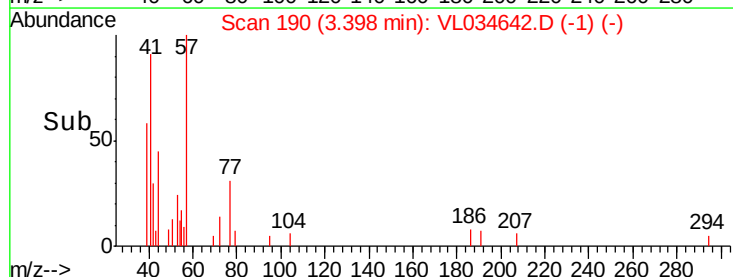
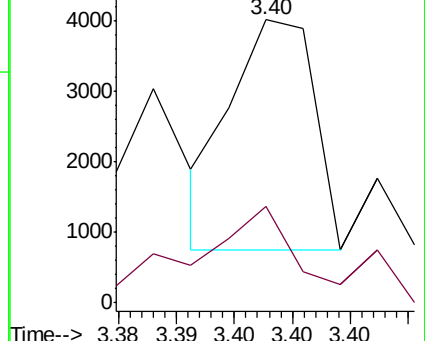
41 100

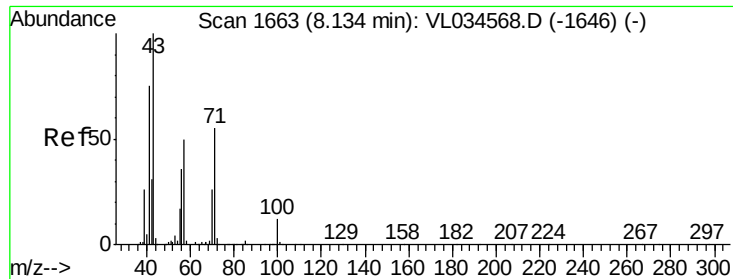
42 72.9 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

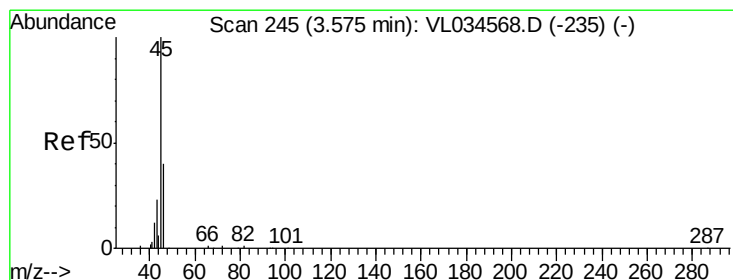
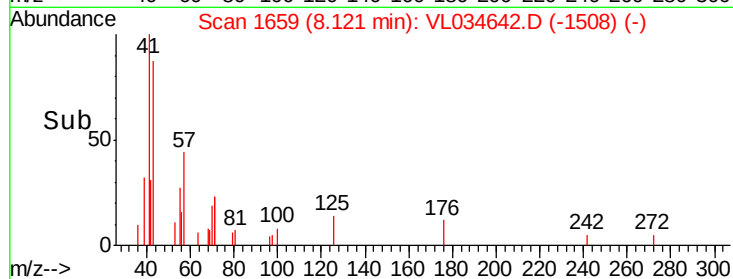
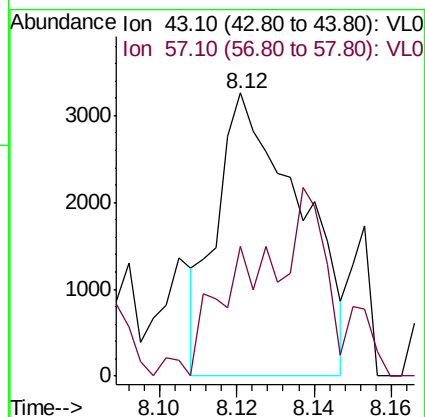
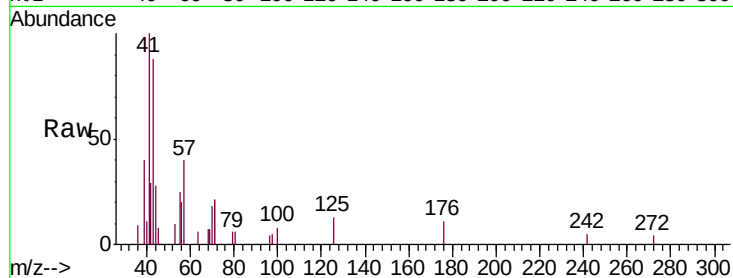




#10
Heptane
Concen: 0.037 ppbv
RT: 8.12 min Scan# 1659
Delta R.T. -0.01 min
Lab File: VL034642.D
Acq: 19 Feb 2020 2:56

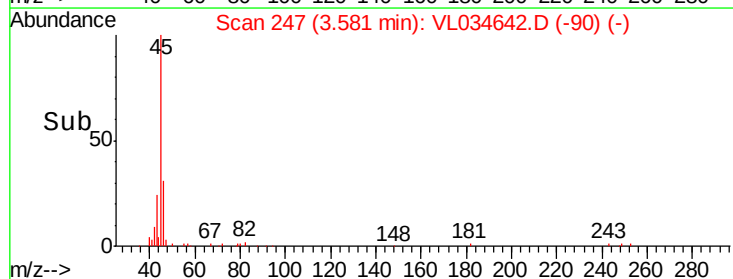
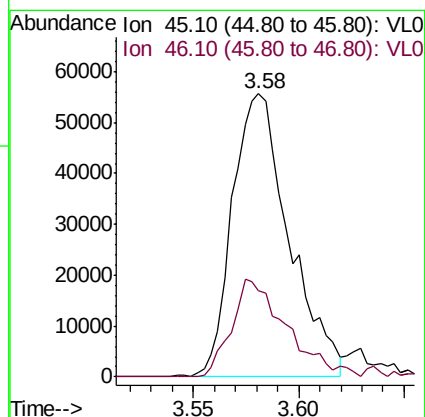
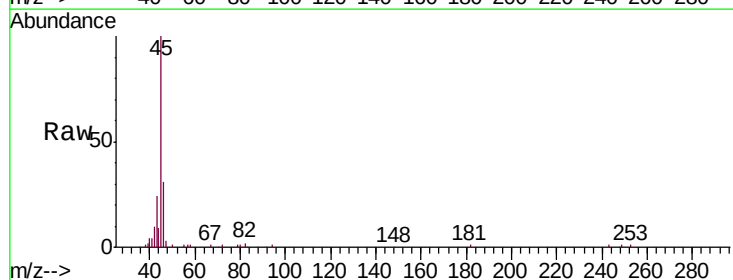
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

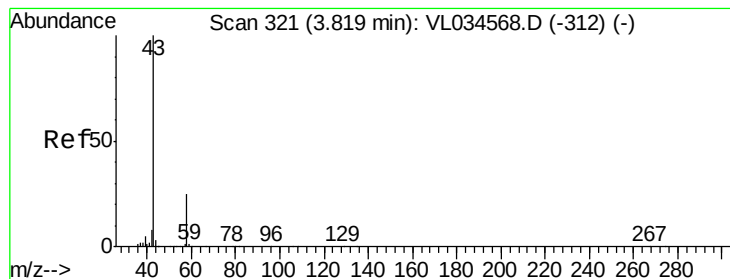
Tgt Ion: 43 Resp: 4839
Ion Ratio Lower Upper
43 100
57 65.4 41.2 61.8#



#13
Ethanol
Concen: 7.480 ppbv
RT: 3.58 min Scan# 247
Delta R.T. 0.01 min
Lab File: VL034642.D
Acq: 19 Feb 2020 2:56

Tgt Ion: 45 Resp: 104026
Ion Ratio Lower Upper
45 100
46 34.6 14.8 59.2





#15

Acetone

Concen: 1.600 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL034642.D

Acq: 19 Feb 2020 2:56

Instrument :

MSVOA_L

ClientSampleId :

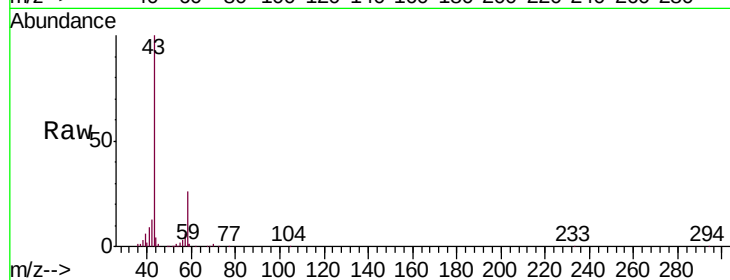
SS-2DL

Tgt Ion: 43 Resp: 259488

Ion Ratio Lower Upper

43 100

58 22.8 20.3 30.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

150000

100000

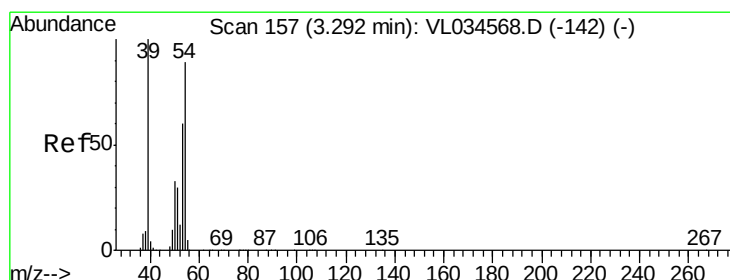
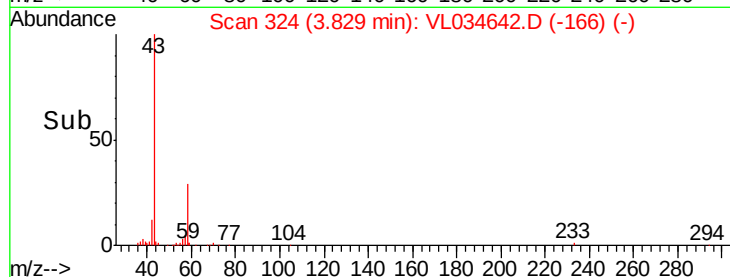
50000

0

3.83

3.80 3.85 3.90

Time-->



#16

1,3-Butadiene

Concen: 0.037 ppbv

RT: 3.29 min Scan# 156

Delta R.T. -0.00 min

Lab File: VL034642.D

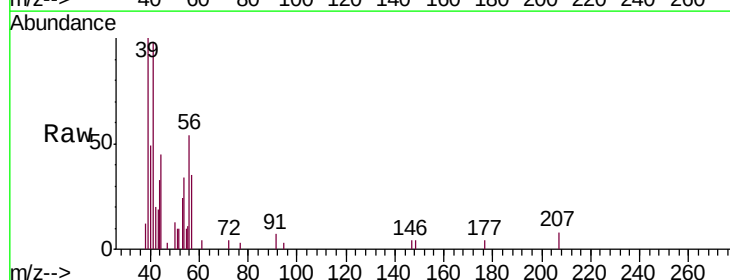
Acq: 19 Feb 2020 2:56

Tgt Ion: 39 Resp: 2358

Ion Ratio Lower Upper

39 100

54 0.0 66.7 100.1#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

8000

6000

4000

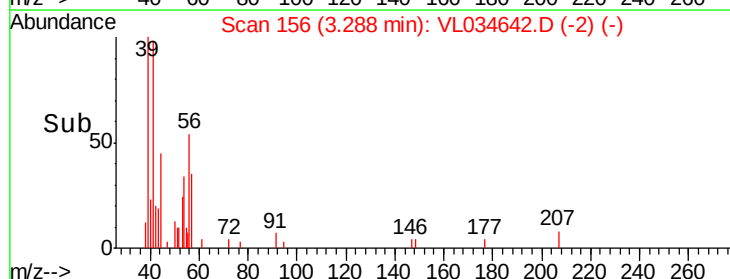
2000

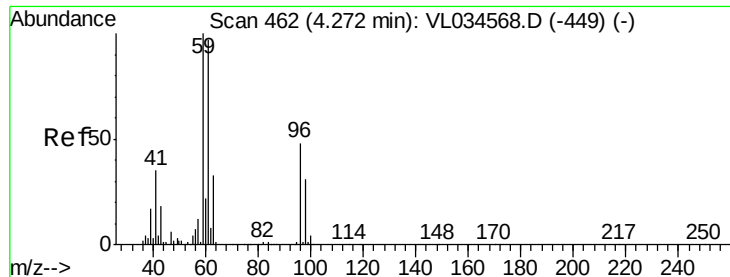
0

3.29

3.28 3.29 3.30

Time-->





#17

tert-Butyl alcohol

Concen: 0.465 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.02 min

Lab File: VL034642.D

Acq: 19 Feb 2020 2:56

Instrument :

MSVOA_L

ClientSampled :

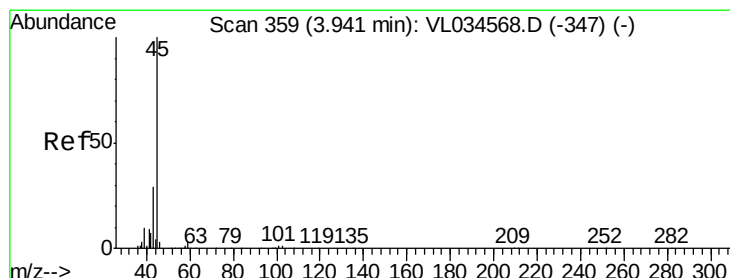
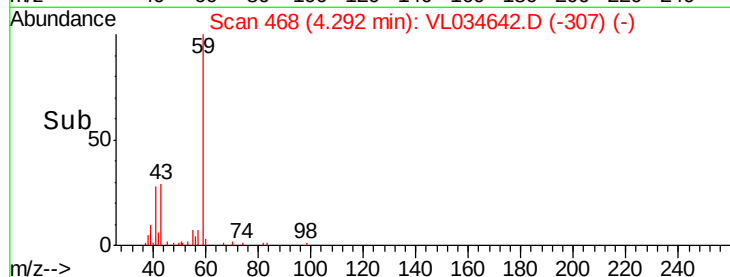
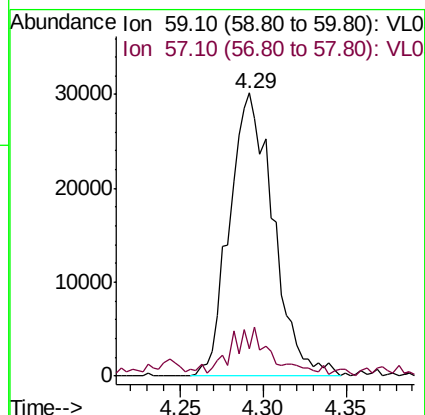
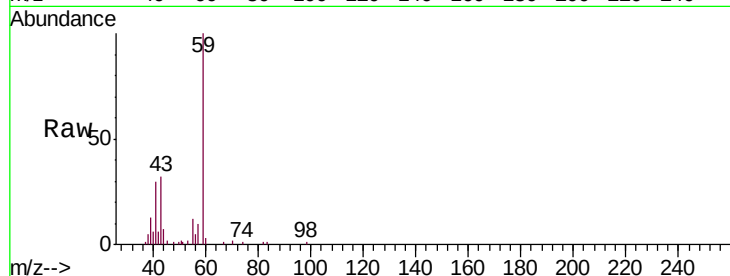
SS-2DL

Tgt Ion: 59 Resp: 55468

Ion Ratio Lower Upper

59 100

57 17.2 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 0.062 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.03 min

Lab File: VL034642.D

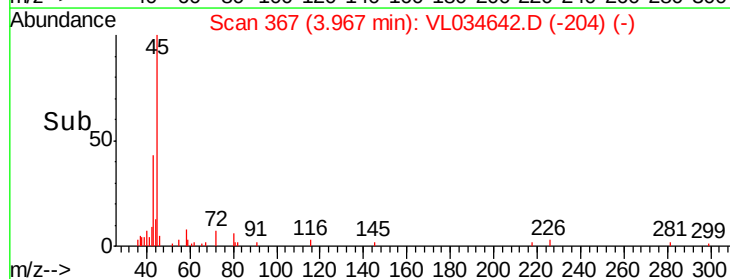
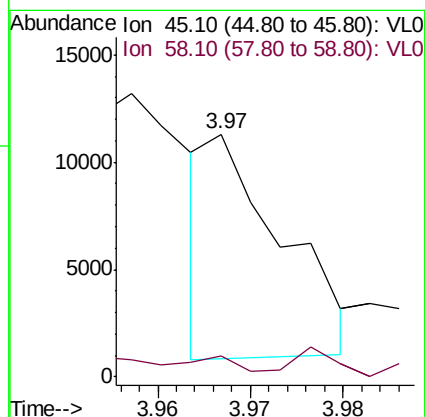
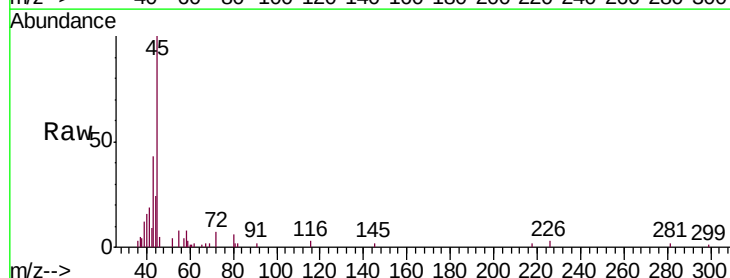
Acq: 19 Feb 2020 2:56

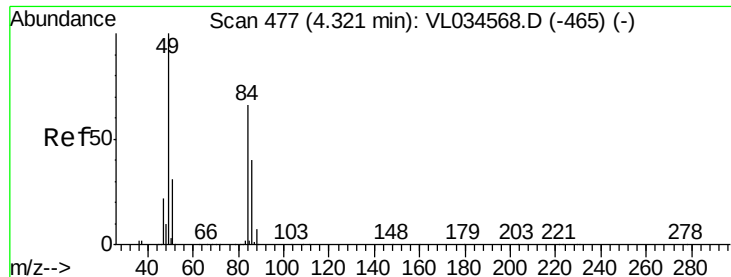
Tgt Ion: 45 Resp: 5837

Ion Ratio Lower Upper

45 100

58 0.0 1.7 2.5#

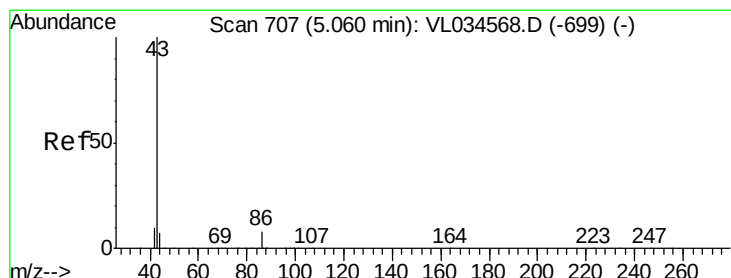
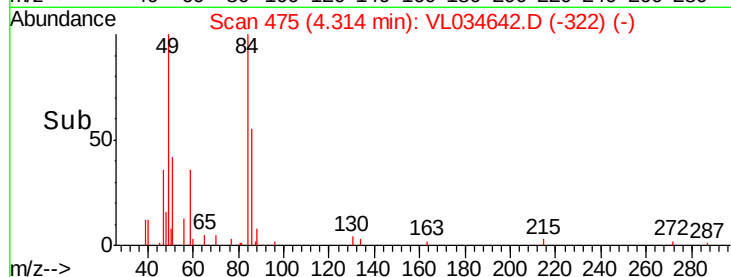
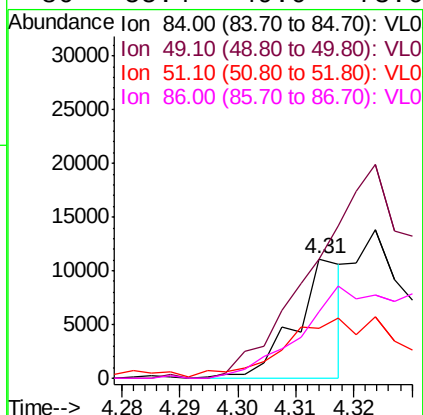
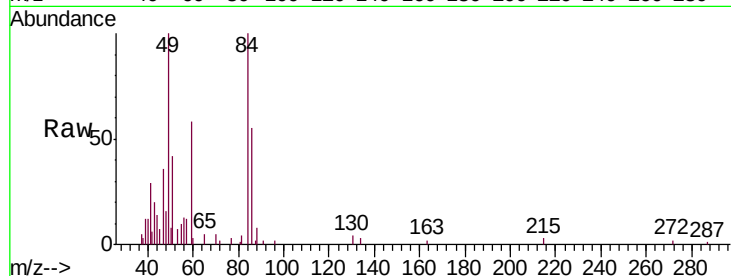




#20
Methylene Chloride
Concen: 0.103 ppbv
RT: 4.31 min Scan# 475
Delta R.T. -0.01 min
Lab File: VL034642.D
Acq: 19 Feb 2020 2:56

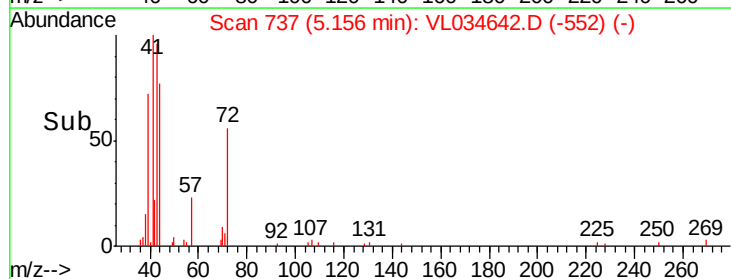
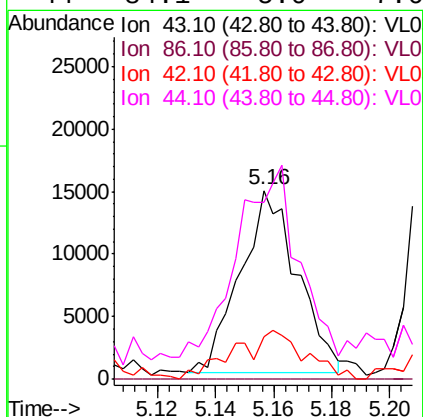
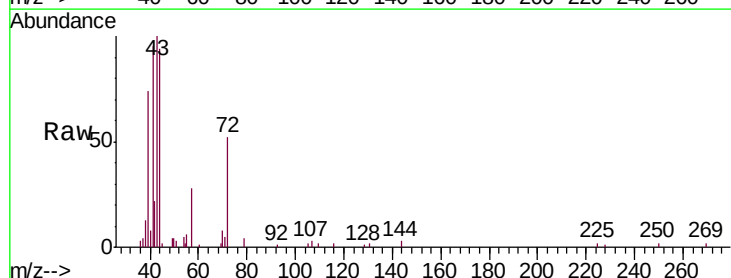
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

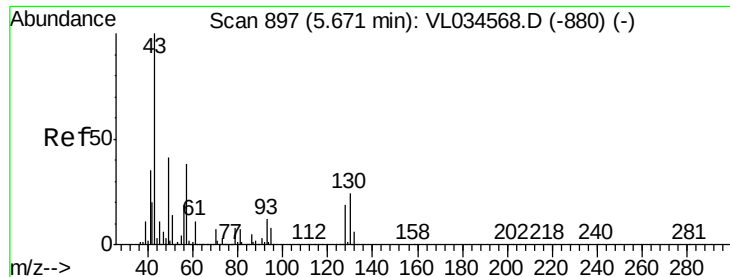
Tgt Ion:	84	Resp:	6382
Ion	Ratio	Lower	Upper
84	100		
49	98.2	122.4	183.6#
51	40.8	38.6	57.8
86	55.4	49.0	73.6



#23
Vinyl Acetate
Concen: 0.108 ppbv
RT: 5.16 min Scan# 737
Delta R.T. 0.10 min
Lab File: VL034642.D
Acq: 19 Feb 2020 2:56

Tgt Ion:	43	Resp:	20069
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.9	8.9#
42	20.9	8.8	13.2#
44	84.1	5.0	7.6#





#25

Ethyl Acetate

Concen: 0.032 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL034642.D

Acq: 19 Feb 2020 2:56

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

Tgt Ion: 43 Resp: 8441

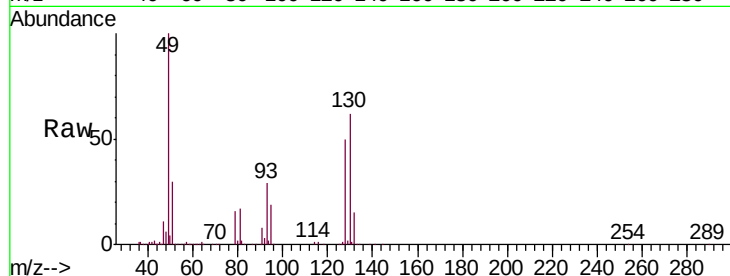
Ion Ratio Lower Upper

43 100

45 92.6 8.5 12.7#

61 0.0 7.8 11.6#

70 0.0 5.8 8.8#

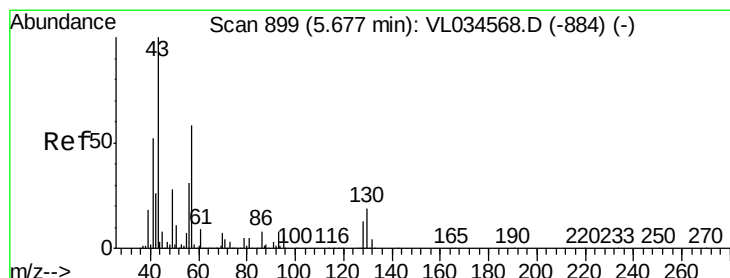
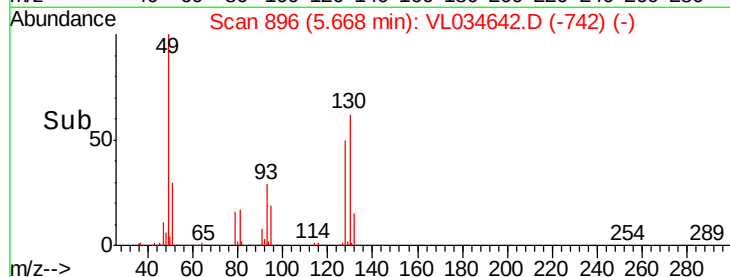
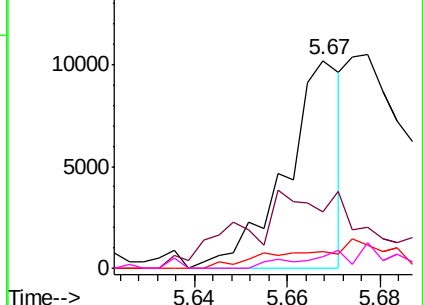


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.046 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.00 min

Lab File: VL034642.D

Acq: 19 Feb 2020 2:56

Tgt Ion: 57 Resp: 5101

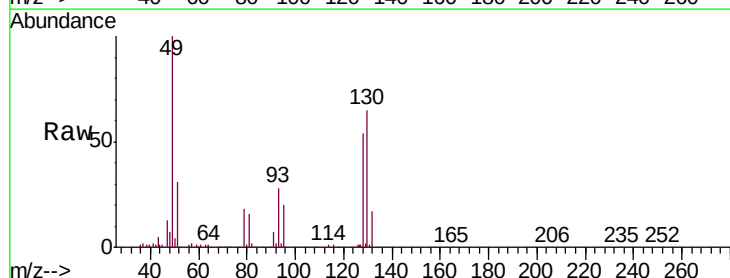
Ion Ratio Lower Upper

57 100

41 198.2 76.2 114.2#

43 0.0 189.9 284.9#

56 0.0 43.6 65.4#

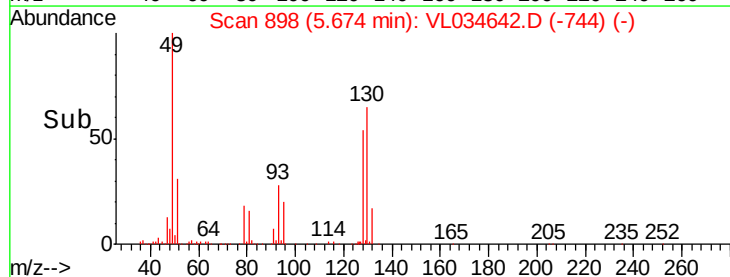
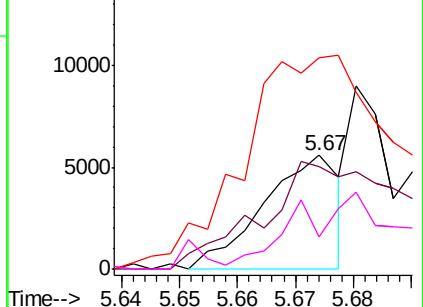


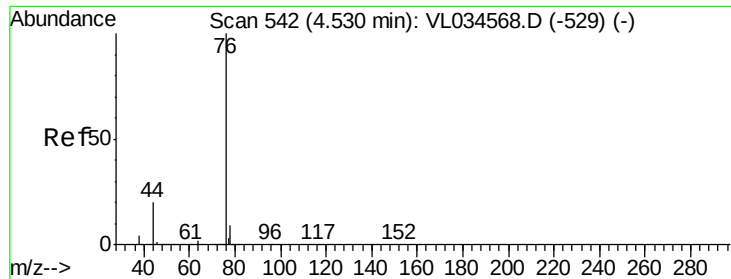
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

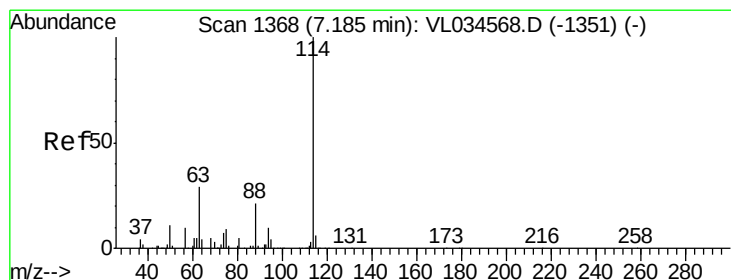
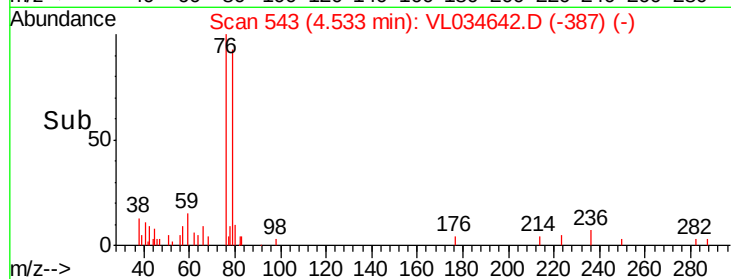
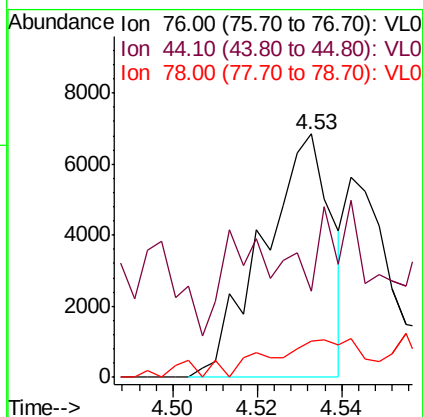
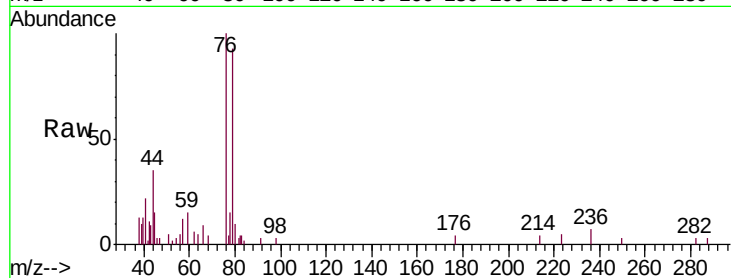




#27
Carbon Disulfide
Concen: 0.052 ppbv
RT: 4.53 min Scan# 543
Delta R.T. 0.00 min
Lab File: VL034642.D
Acq: 19 Feb 2020 2:56

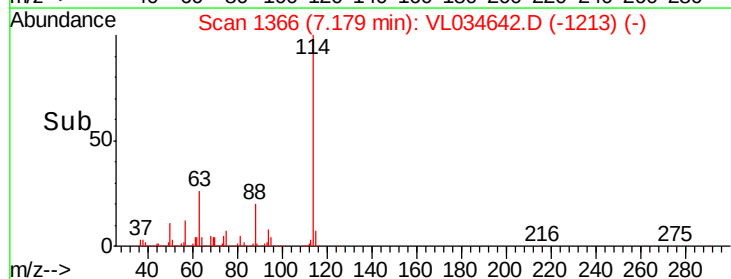
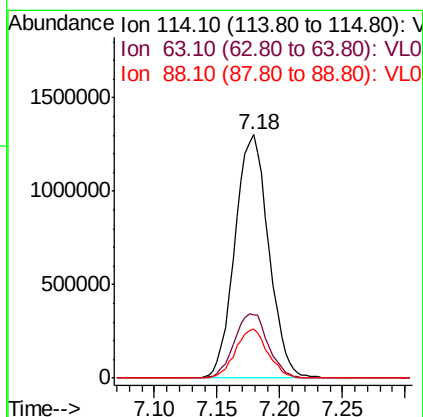
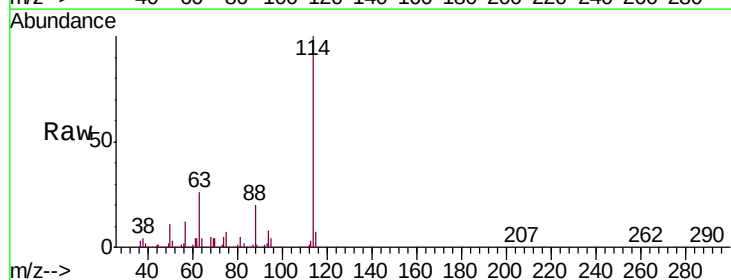
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

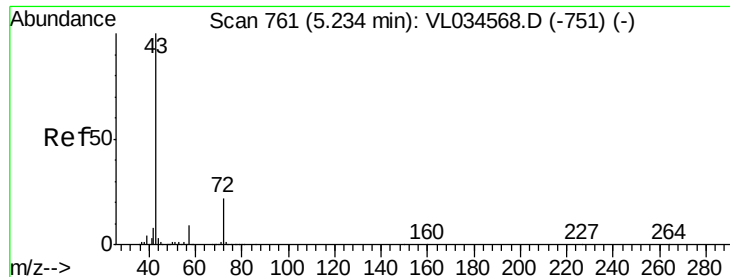
Tgt Ion: 76 Resp: 7662
Ion Ratio Lower Upper
76 100
44 57.9 16.3 24.5#
78 0.0 7.4 11.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL034642.D
Acq: 19 Feb 2020 2:56

Tgt Ion: 114 Resp: 2439588
Ion Ratio Lower Upper
114 100
63 26.6 24.1 36.1
88 19.3 15.9 23.9

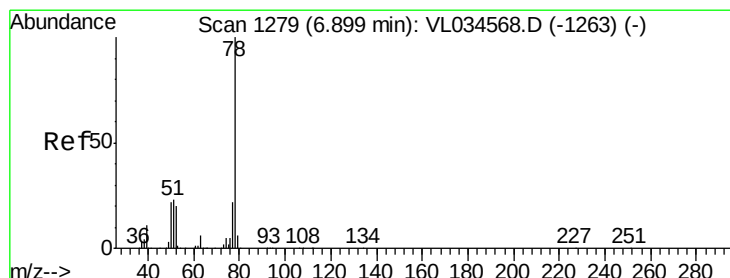
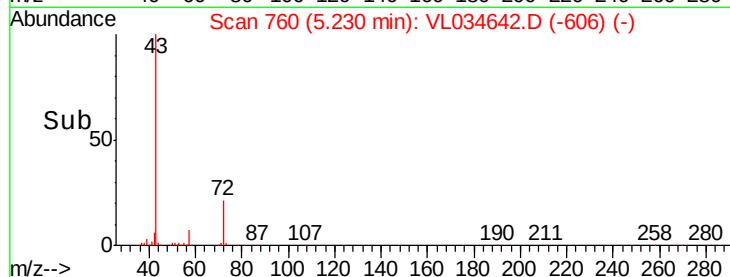
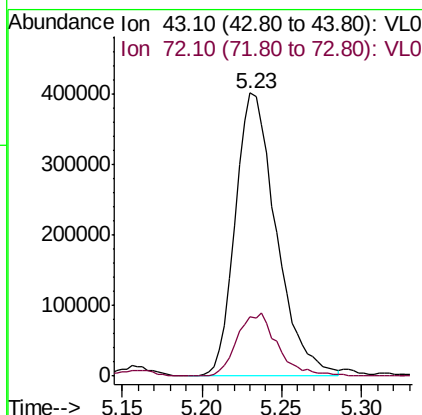
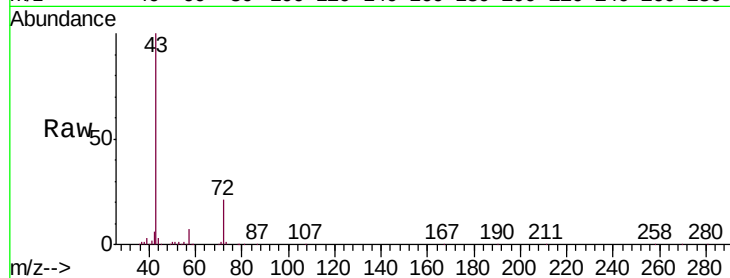




#34
2-Butanone
Concen: 3.947 ppbv
RT: 5.23 min Scan# 760
Delta R.T. -0.00 min
Lab File: VL034642.D
Acq: 19 Feb 2020 2:56

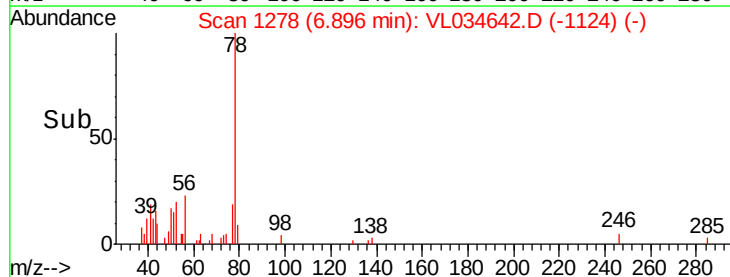
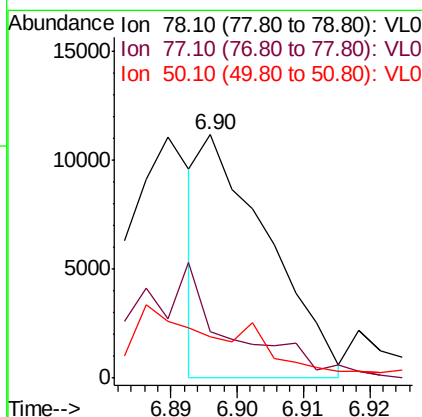
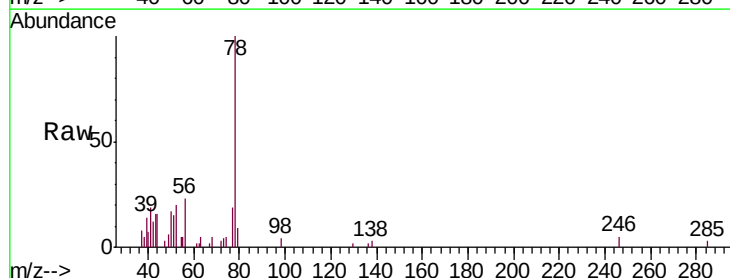
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

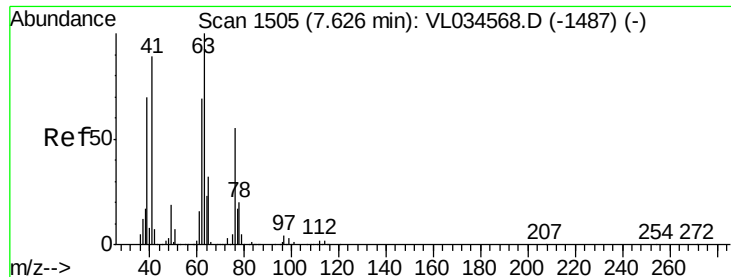
Tgt Ion: 43 Resp: 699231
Ion Ratio Lower Upper
43 100
72 21.9 17.2 25.8



#36
Benzene
Concen: 0.036 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. -0.00 min
Lab File: VL034642.D
Acq: 19 Feb 2020 2:56

Tgt Ion: 78 Resp: 7858
Ion Ratio Lower Upper
78 100
77 8.8 17.3 25.9#
50 15.0 17.4 26.2#

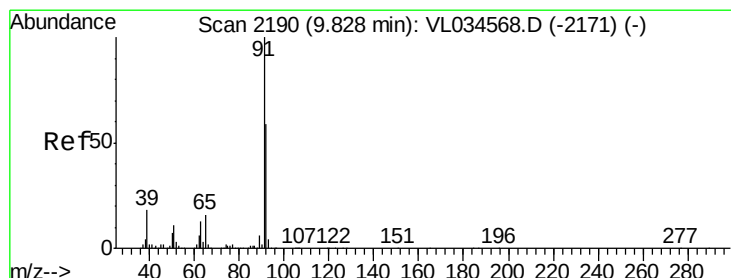
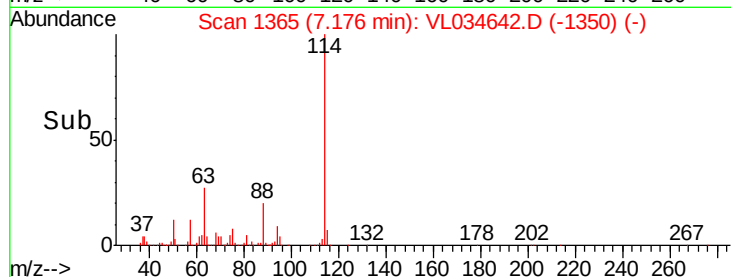
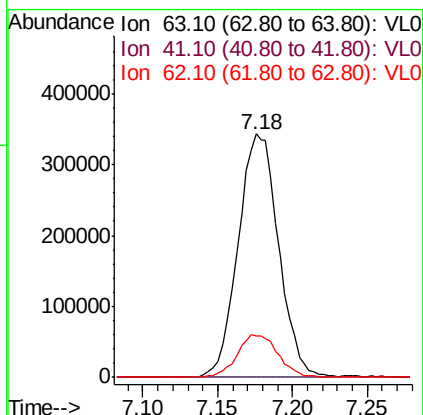
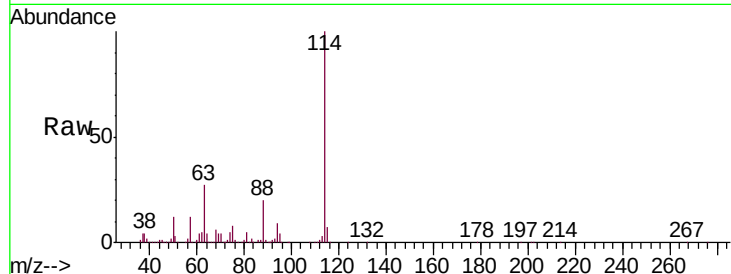




#39
 1,2-Dichloropropane
 Concen: 7.174 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.45 min
 Lab File: VL034642.D
 Acq: 19 Feb 2020 2:56

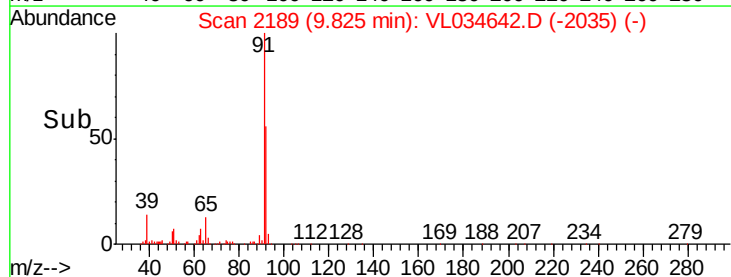
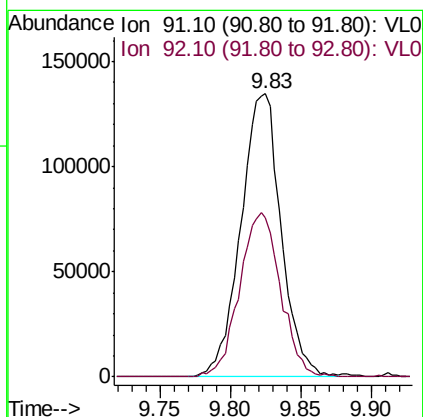
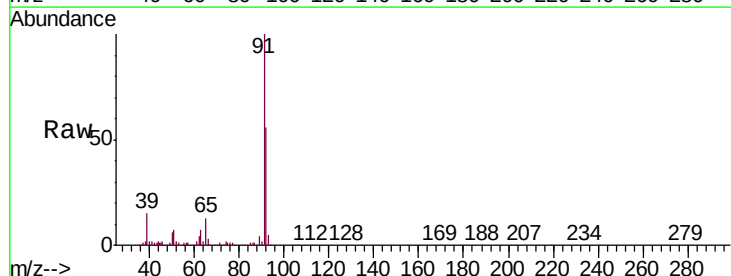
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DL

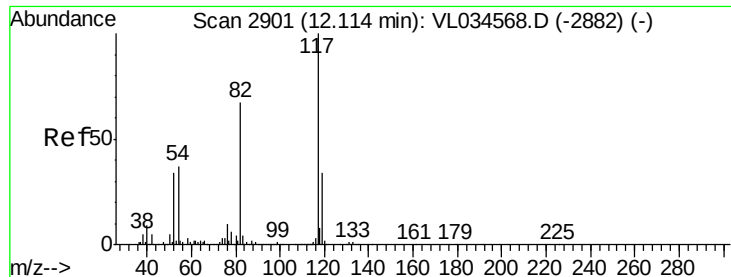
Tgt Ion: 63 Resp: 645167
 Ion Ratio Lower Upper
 63 100
 41 0.0 71.0 106.4#
 62 17.2 55.4 83.0#



#53
 Toluene
 Concen: 1.130 ppbv
 RT: 9.83 min Scan# 2189
 Delta R.T. -0.00 min
 Lab File: VL034642.D
 Acq: 19 Feb 2020 2:56

Tgt Ion: 91 Resp: 269247
 Ion Ratio Lower Upper
 91 100
 92 59.2 48.2 72.2

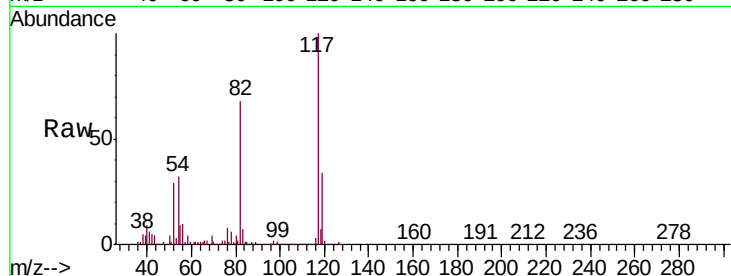




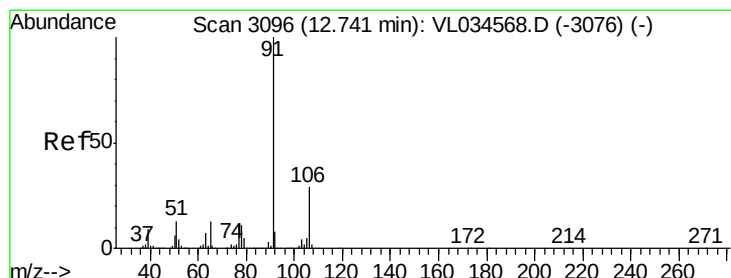
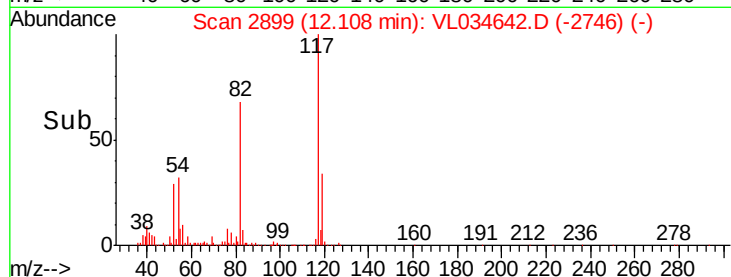
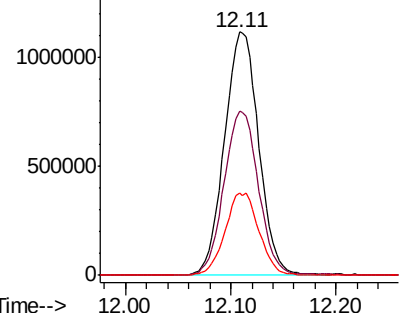
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.01 min
Lab File: VL034642.D
Acq: 19 Feb 2020 2:56

Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

Tgt Ion: 117 Resp: 2519310
Ion Ratio Lower Upper
117 100
82 68.6 54.2 81.4
119 33.6 26.1 39.1

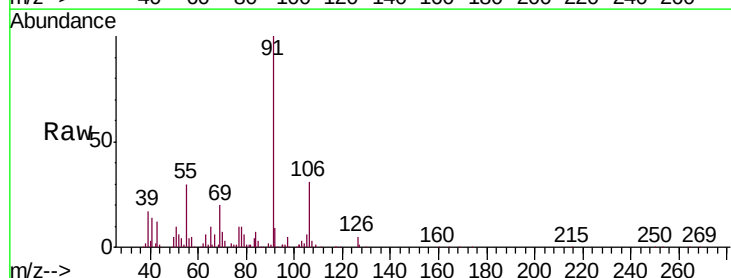


Abundance Ion 117.10 (116.80 to 117.80): V
1500000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

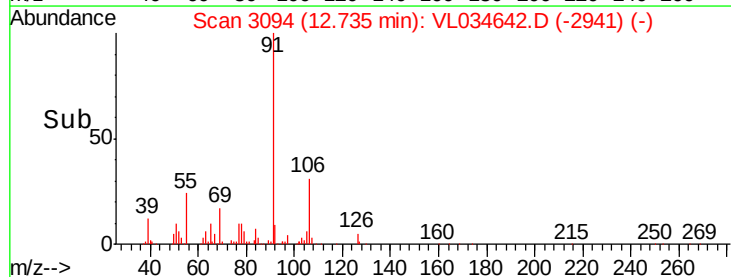
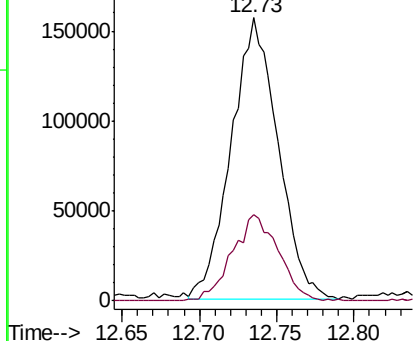


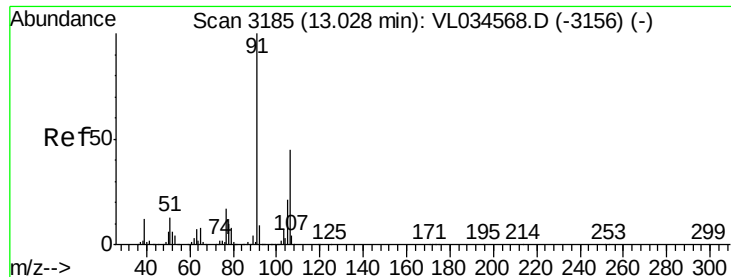
#58
Ethyl Benzene
Concen: 0.975 ppbv
RT: 12.73 min Scan# 3094
Delta R.T. -0.01 min
Lab File: VL034642.D
Acq: 19 Feb 2020 2:56

Tgt Ion: 91 Resp: 328760
Ion Ratio Lower Upper
91 100
106 30.3 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

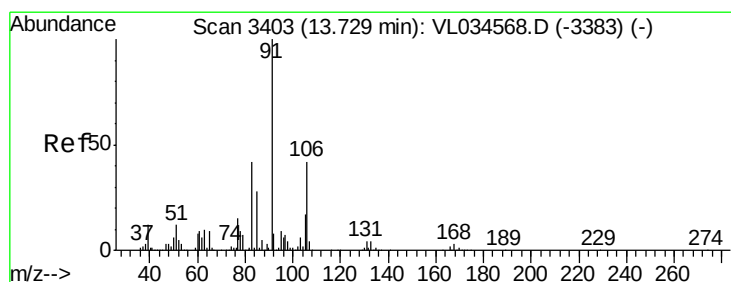
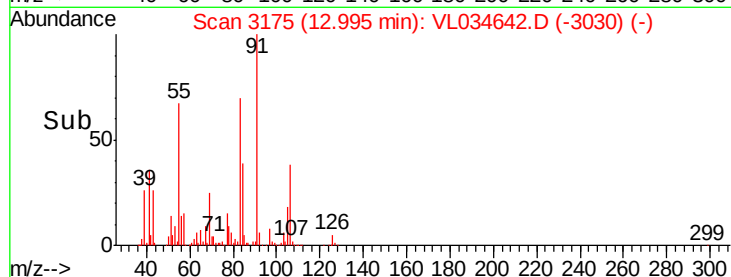
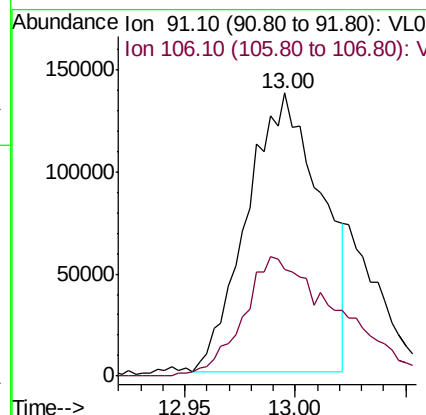
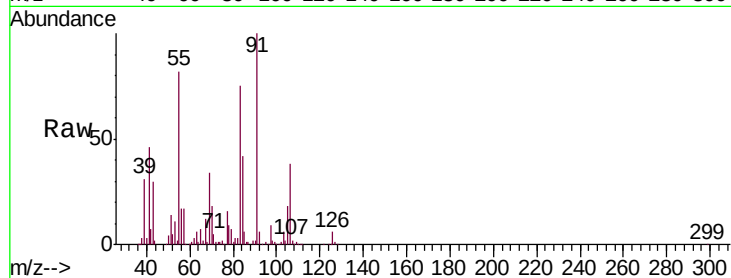




#59
m/p-Xylene
Concen: 1.065 ppbv
RT: 13.00 min Scan# 3175
Delta R.T. -0.03 min
Lab File: VL034642.D
Acq: 19 Feb 2020 2:56

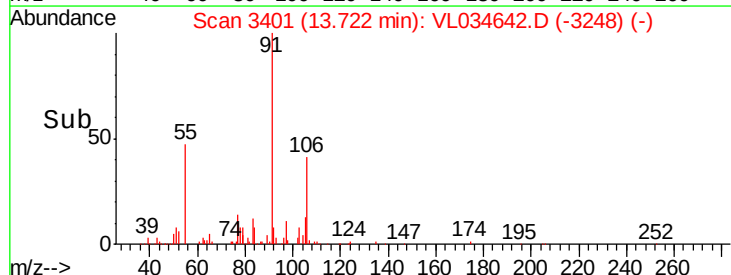
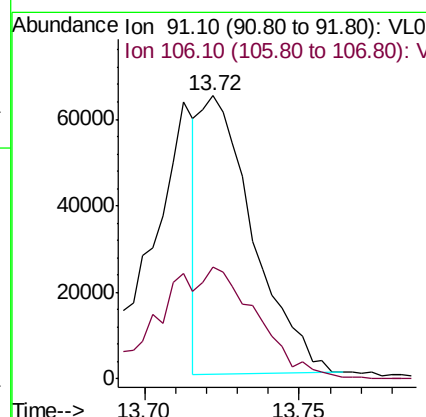
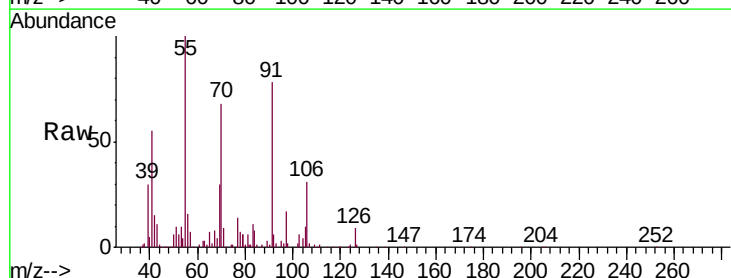
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

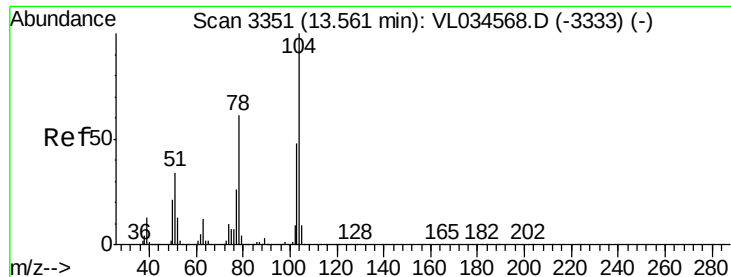
Tgt Ion: 91 Resp: 317457
Ion Ratio Lower Upper
91 100
106 55.3 35.3 52.9#



#60
o-Xylene
Concen: 0.256 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. -0.01 min
Lab File: VL034642.D
Acq: 19 Feb 2020 2:56

Tgt Ion: 91 Resp: 76616
Ion Ratio Lower Upper
91 100
106 75.5 21.6 65.0#





#61

Styrene

Concen: 13.208 ppbv

RT: 13.55 min Scan# 3349

Delta R.T. -0.01 min

Lab File: VL034642.D

Acq: 19 Feb 2020 2:56

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

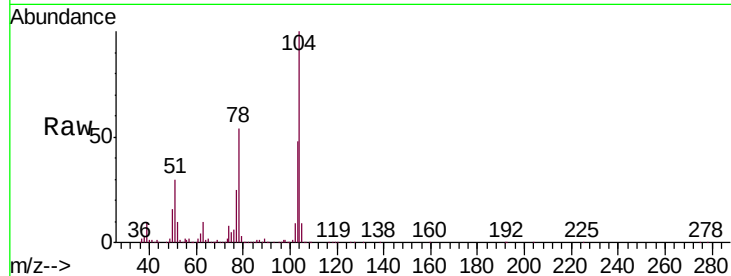
Tgt Ion:104 Resp: 2635674

Ion Ratio Lower Upper

104 100

78 55.1 47.0 70.6

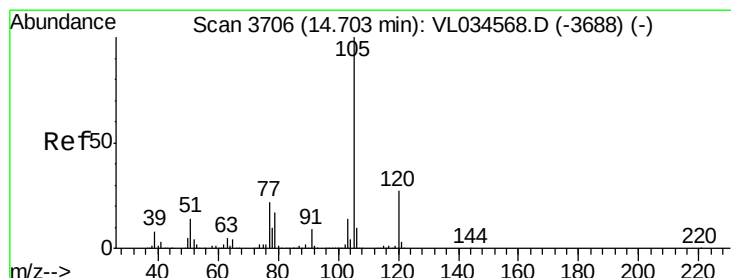
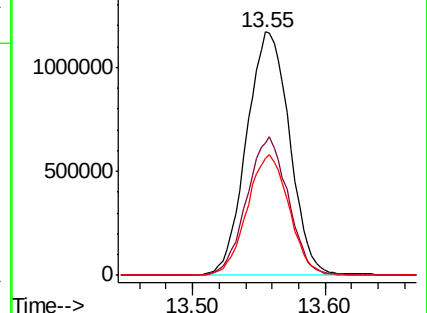
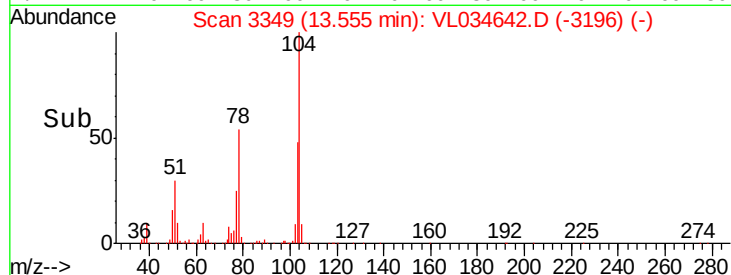
103 48.5 38.5 57.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 11.657 ppbv

RT: 14.70 min Scan# 3705

Delta R.T. -0.00 min

Lab File: VL034642.D

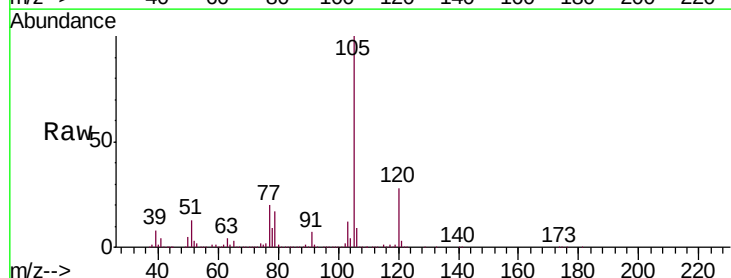
Acq: 19 Feb 2020 2:56

Tgt Ion:105 Resp: 4520904

Ion Ratio Lower Upper

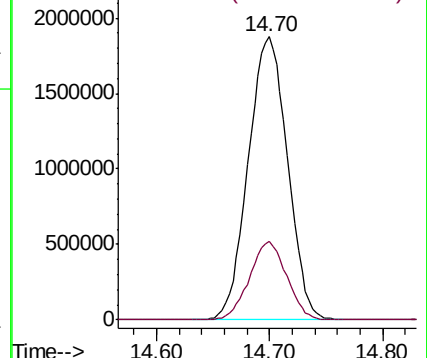
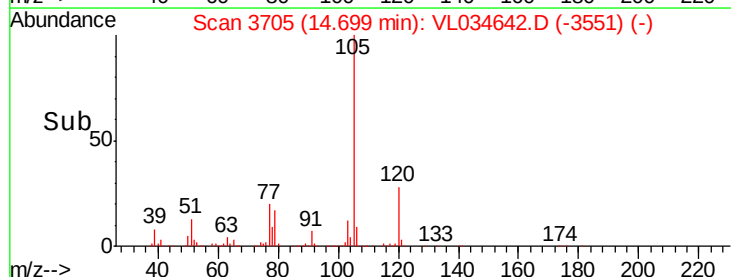
105 100

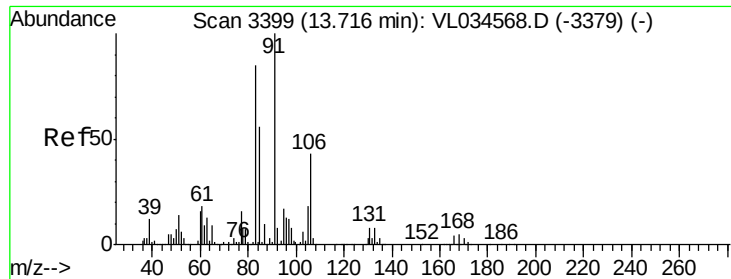
120 26.3 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

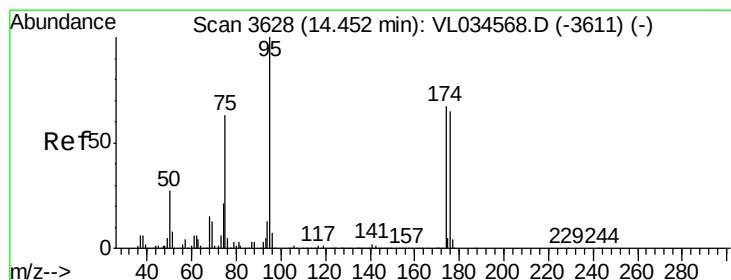
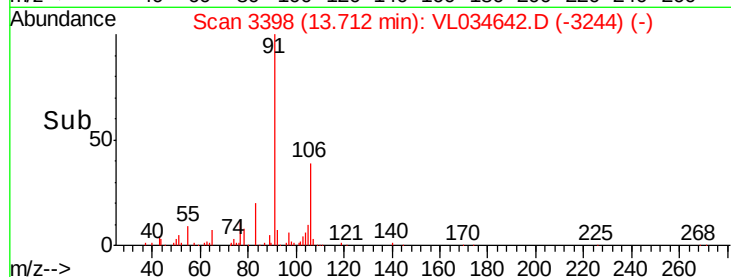
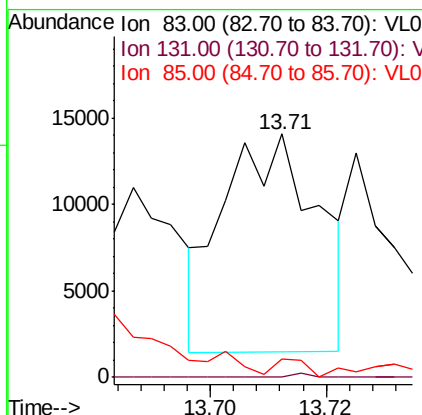
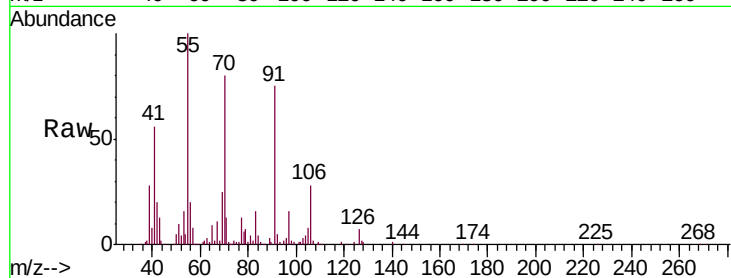




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.061 ppbv
 RT: 13.71 min Scan# 3398
 Delta R.T. -0.00 min
 Lab File: VL034642.D
 Acq: 19 Feb 2020 2:56

Instrument :
 MSVOA_L
 ClientSampled :
 SS-2DL

Tgt Ion: 83 Resp: 14171
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.9 14.6#
 85 0.0 32.6 98.0#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.785 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.01 min
 Lab File: VL034642.D
 Acq: 19 Feb 2020 2:56

Tgt Ion: 95 Resp: 2083448
 Ion Ratio Lower Upper
 95 100
 174 70.1 52.3 78.5
 175 5.3 3.8 5.6

