

Data File : VL034629.D
Acq On : 18 Feb 2020 18:21
Operator : SY/AP
Sample : L1532-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IR-PR-IA

Quant Time: Feb 19 06:04:50 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 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	5.65	49	901264	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	1854668	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.11	117	1848130	10.00	ppbv	0.00

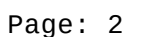
System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.45 95 1599004 10.24 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.40%

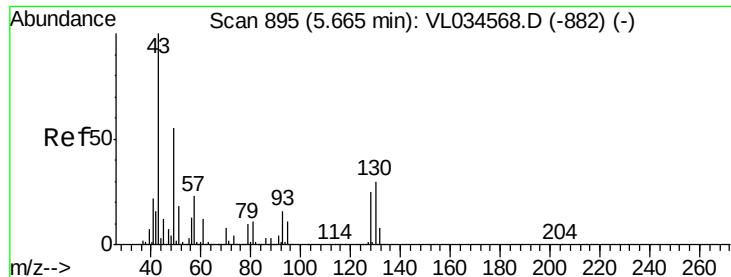
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	47007	0.237	ppbv	89
3) Chlorodifluoromethane	2.95	51	43560	0.400	ppbv #	87
4) Chloromethane	3.10	50	29767	0.447	ppbv	92
9) Propene	2.98	41	33964	0.801	ppbv #	72
11) Trichlorofluoromethane	3.92	101	43958	0.244	ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.46	101	9114	0.077	ppbv	93
13) Ethanol	3.57	45	913256	80.409	ppbv	99
15) Acetone	3.82	43	616348	4.653	ppbv	100
16) 1,3-Butadiene	3.28	39	1905	0.036	ppbv #	8
19) Isopropyl Alcohol	3.94	45	55129	0.713	ppbv #	1
20) Methylene Chloride	4.32	84	88137	1.747	ppbv	92
23) Vinyl Acetate	5.04	43	10952	0.072	ppbv #	66
25) Ethyl Acetate	5.67	43	93715	0.437	ppbv #	86
26) Hexane	5.67	57	100203	1.116	ppbv #	44
35) Carbon Tetrachloride	7.02	117	7548	0.043	ppbv #	68
36) Benzene	6.89	78	16592	0.101	ppbv #	77
39) 1,2-Dichloropropane	7.18	63	546370	7.991	ppbv #	20
52) Tetrachloroethene	11.24	164	5252	0.079	ppbv #	33
53) Toluene	9.82	91	497055	2.743	ppbv	95

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration

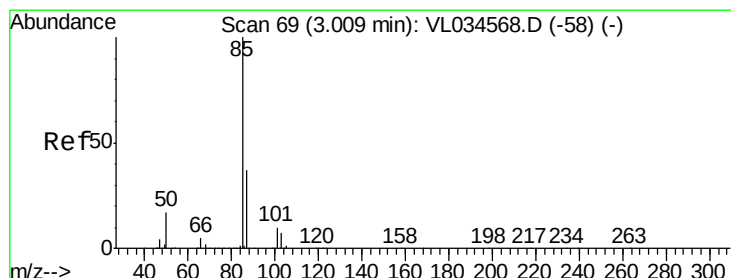
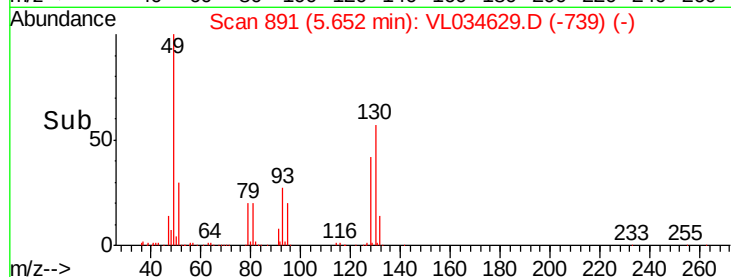
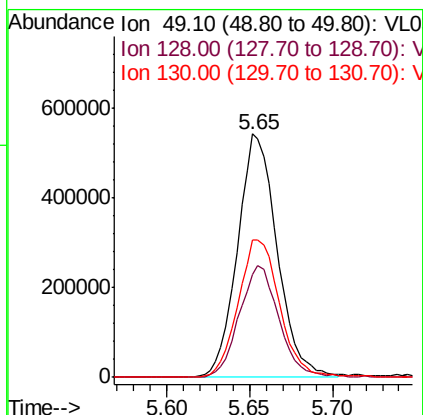
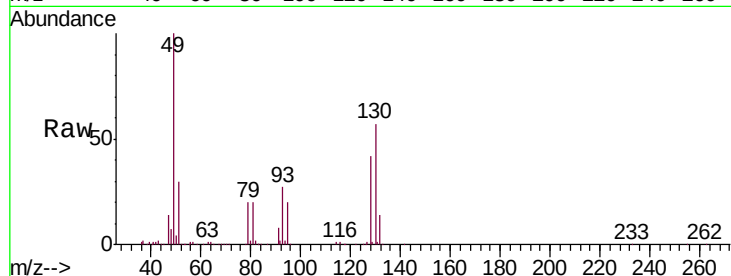




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 891
 Delta R.T. -0.01 min
 Lab File: VL034629.D
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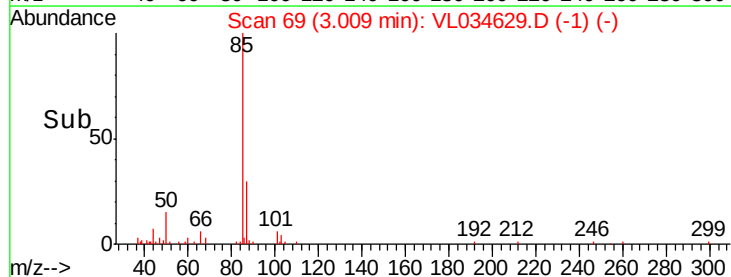
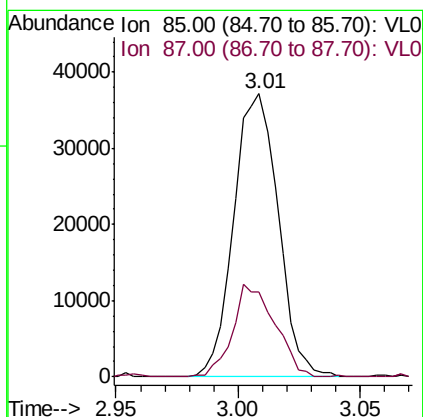
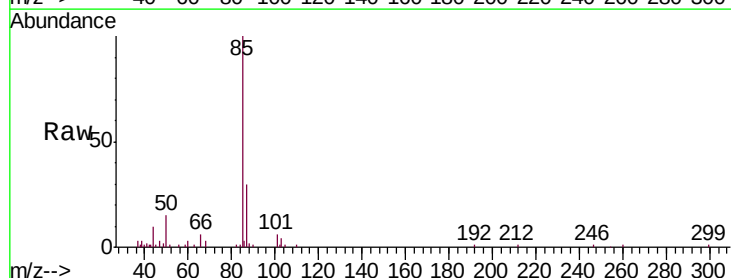
Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PR-IA

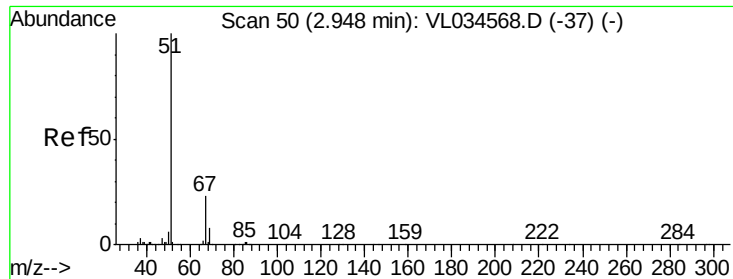
Tgt Ion: 49 Resp: 901264
 Ion Ratio Lower Upper
 49 100
 128 46.0 22.7 68.1
 130 59.5 28.6 85.8



#2
 Dichlorodifluoromethane
 Concen: 0.237 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. -0.00 min
 Lab File: VL034629.D
 Acq: 18 Feb 2020 18:21

Tgt Ion: 85 Resp: 47007
 Ion Ratio Lower Upper
 85 100
 87 30.2 29.5 44.3

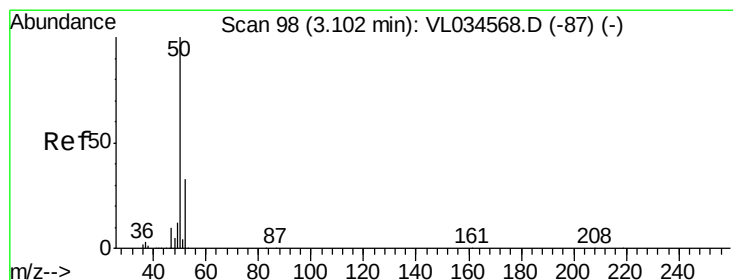
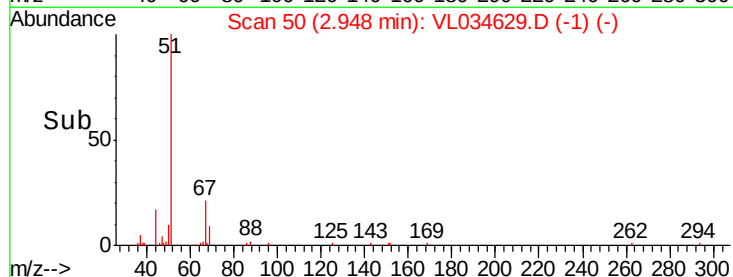
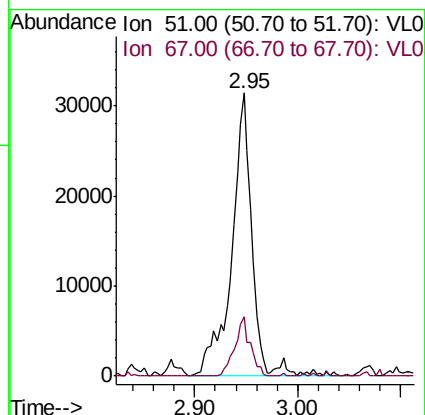
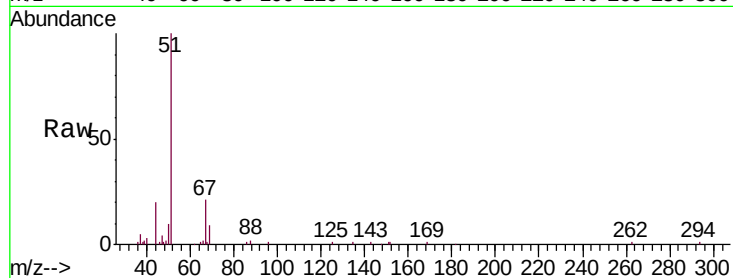




#3
Chlorodifluoromethane
Concen: 0.400 ppbv
RT: 2.95 min Scan# 50
Delta R.T. 0.00 min
Lab File: VL034629.D
Acq: 18 Feb 2020 18:21

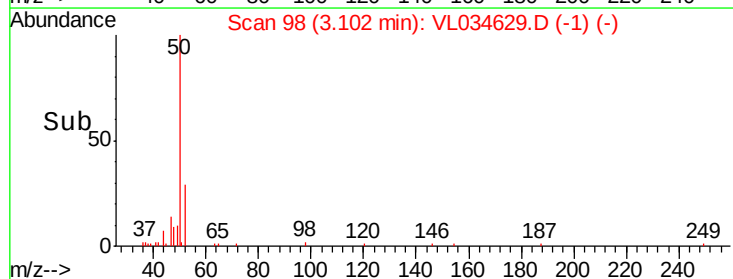
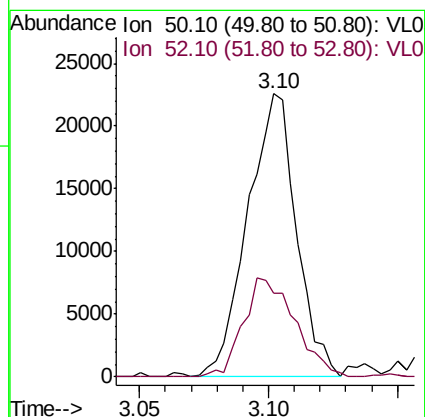
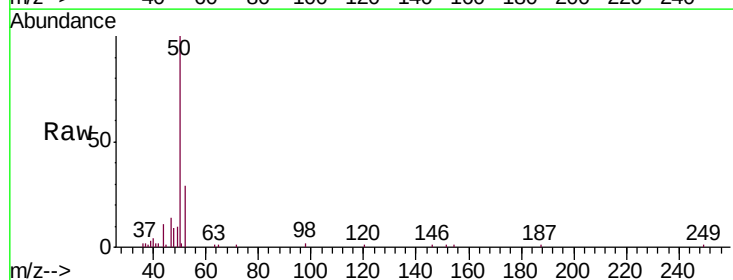
Instrument :
MSVOA_L
ClientSampleId :
IR-PR-IA

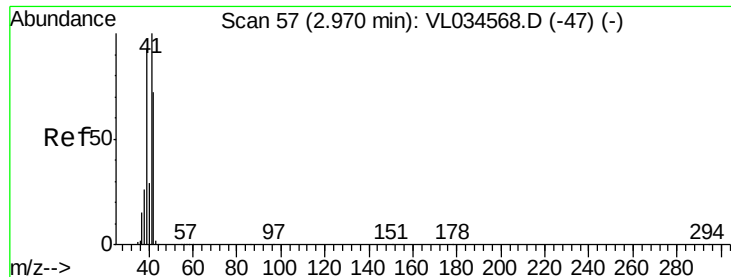
Tgt Ion: 51 Resp: 43560
Ion Ratio Lower Upper
51 100
67 16.0 17.8 26.8#



#4
Chloromethane
Concen: 0.447 ppbv
RT: 3.10 min Scan# 98
Delta R.T. 0.00 min
Lab File: VL034629.D
Acq: 18 Feb 2020 18:21

Tgt Ion: 50 Resp: 29767
Ion Ratio Lower Upper
50 100
52 28.9 26.6 39.8





#9

Propene

Concen: 0.801 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Instrument :

MSVOA_L

ClientSampleId :

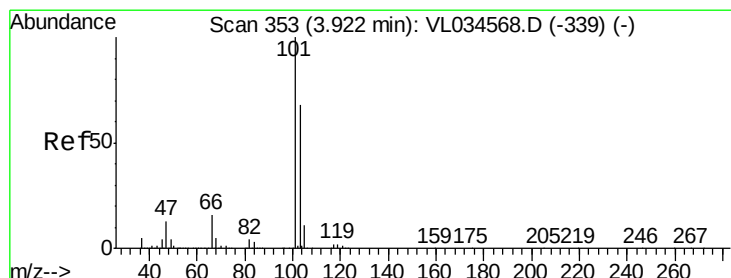
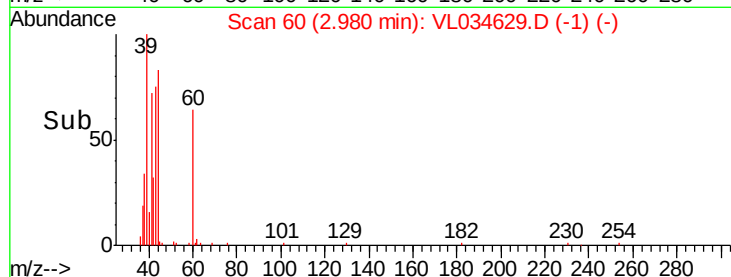
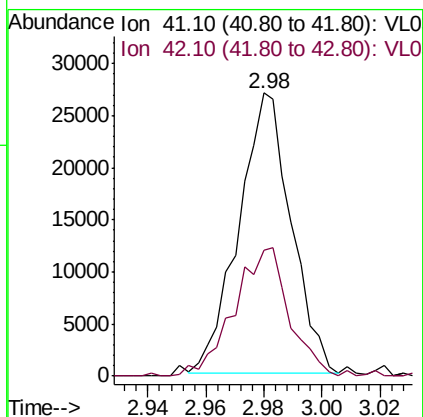
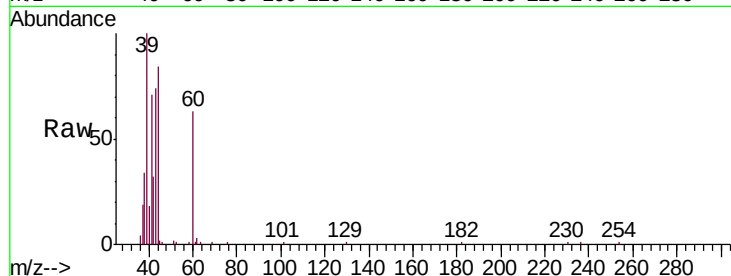
IR-PR-IA

Tgt Ion: 41 Resp: 33964

Ion Ratio Lower Upper

41 100

42 48.1 57.0 85.4#



#11

Trichlorofluoromethane

Concen: 0.244 ppbv

RT: 3.92 min Scan# 352

Delta R.T. -0.00 min

Lab File: VL034629.D

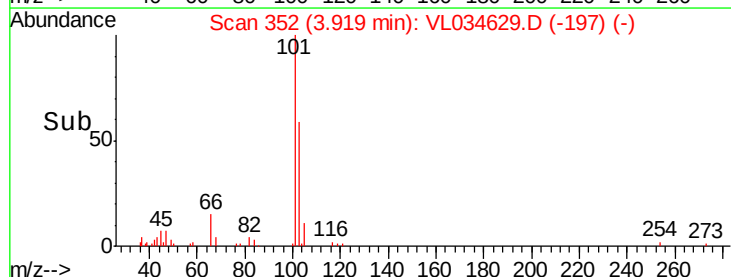
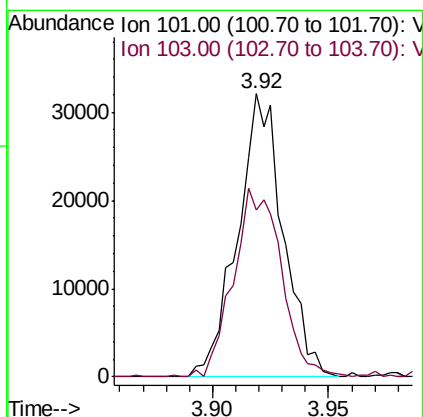
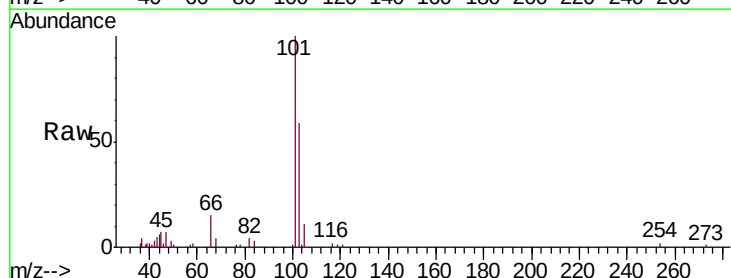
Acq: 18 Feb 2020 18:21

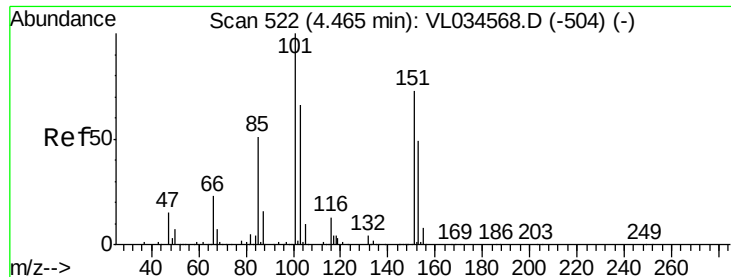
Tgt Ion: 101 Resp: 43958

Ion Ratio Lower Upper

101 100

103 58.9 54.4 81.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.077 ppbv

RT: 4.46 min Scan# 519

Delta R.T. -0.01 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Instrument :

MSVOA_L

ClientSampleId :

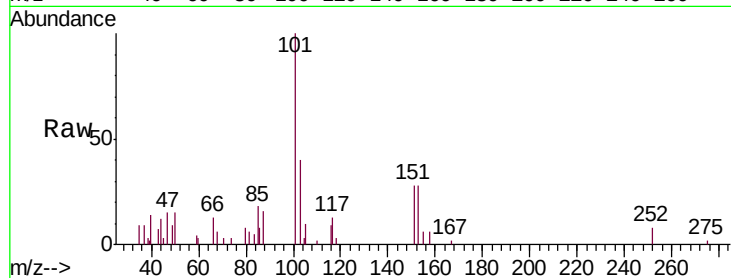
IR-PR-IA

Tgt Ion: 101 Resp: 9114

Ion Ratio Lower Upper

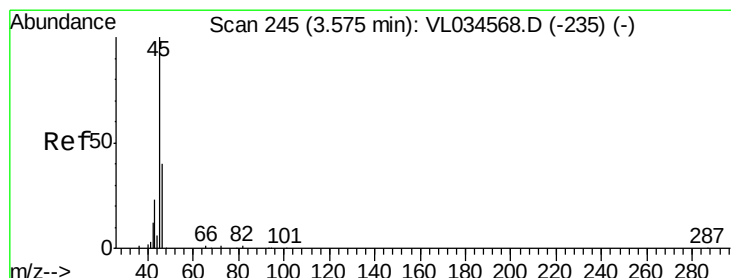
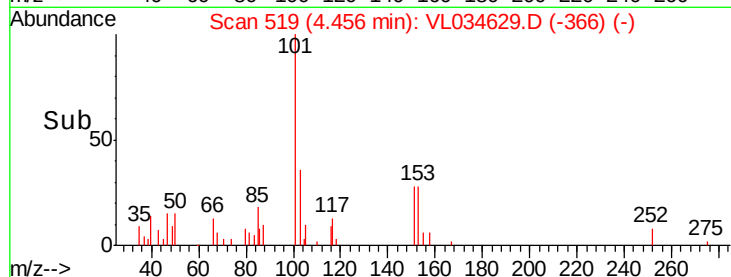
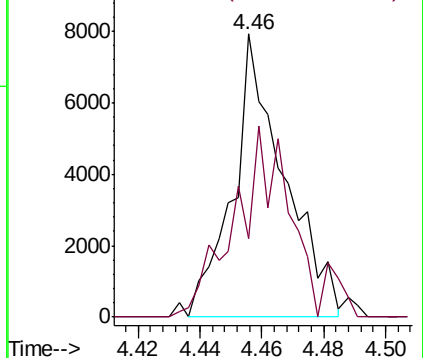
101 100

151 76.8 57.0 85.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 80.409 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.01 min

Lab File: VL034629.D

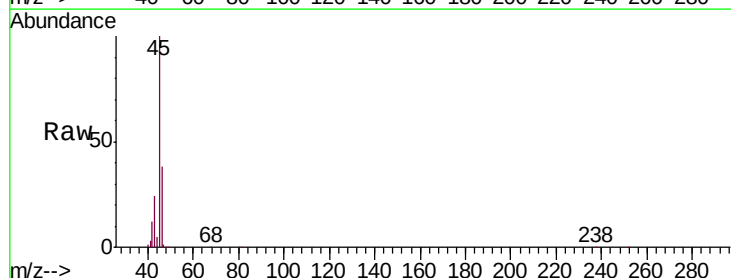
Acq: 18 Feb 2020 18:21

Tgt Ion: 45 Resp: 913256

Ion Ratio Lower Upper

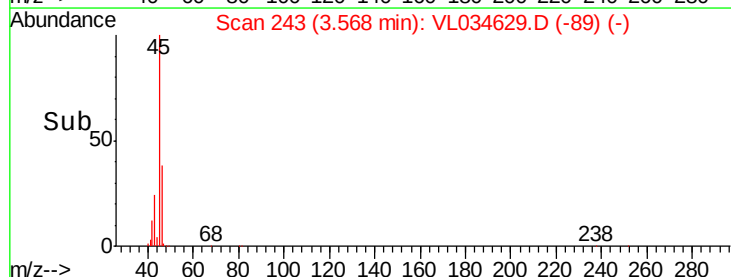
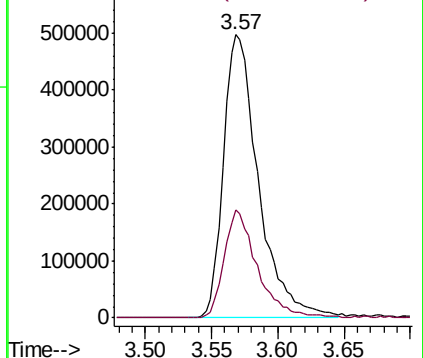
45 100

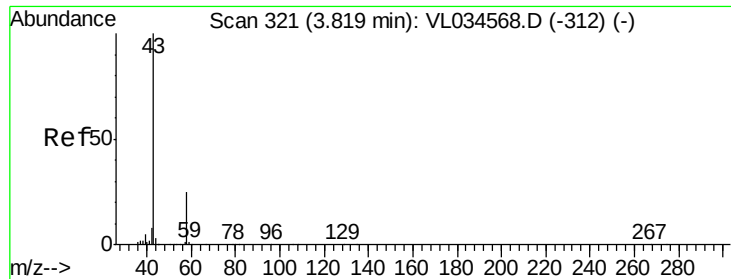
46 36.3 14.8 59.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 4.653 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Instrument :

MSVOA_L

ClientSampleId :

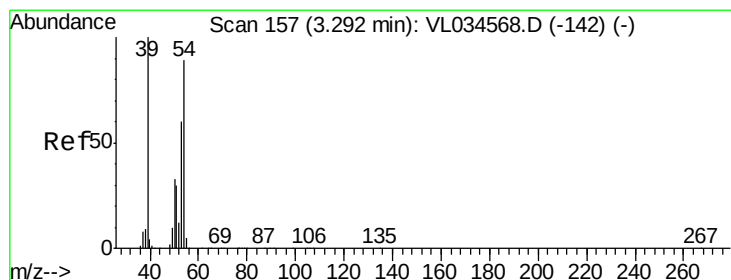
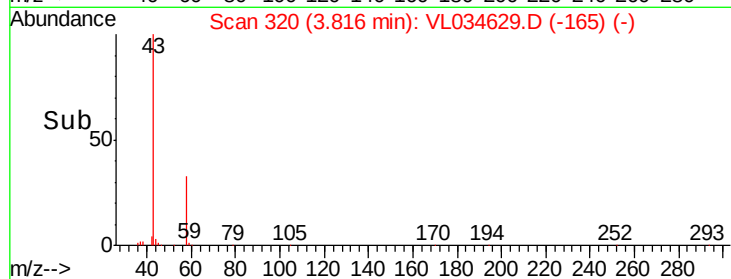
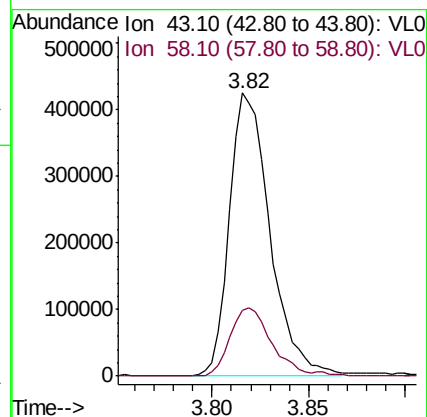
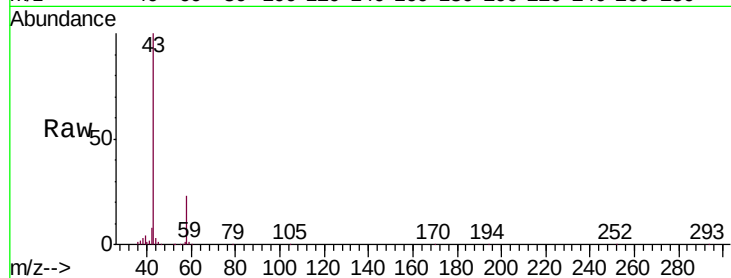
IR-PR-IA

Tgt Ion: 43 Resp: 616348

Ion Ratio Lower Upper

43 100

58 25.3 20.3 30.5



#16

1,3-Butadiene

Concen: 0.036 ppbv

RT: 3.28 min Scan# 152

Delta R.T. -0.02 min

Lab File: VL034629.D

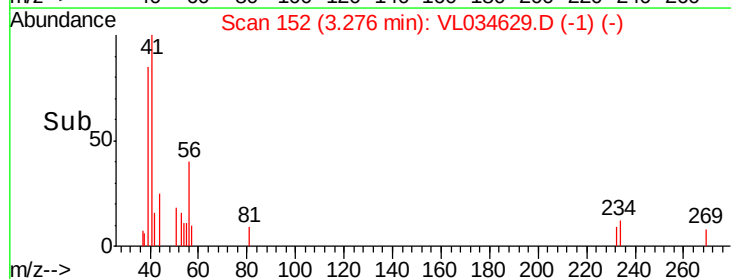
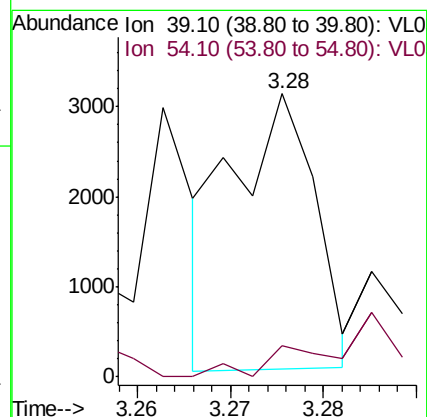
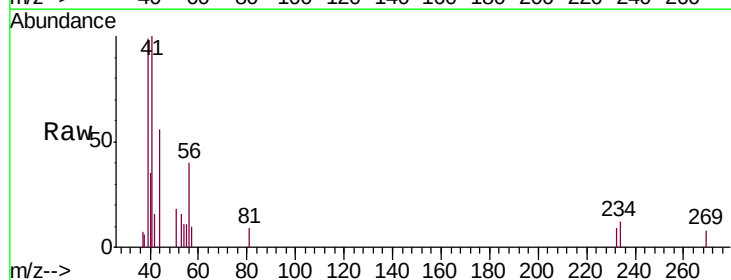
Acq: 18 Feb 2020 18:21

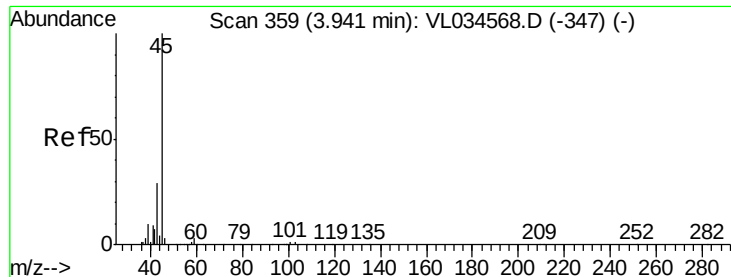
Tgt Ion: 39 Resp: 1905

Ion Ratio Lower Upper

39 100

54 0.0 66.7 100.1#

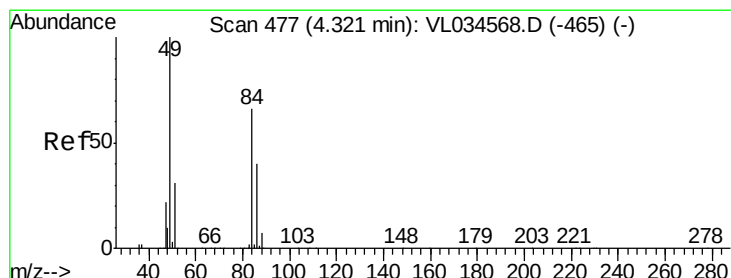
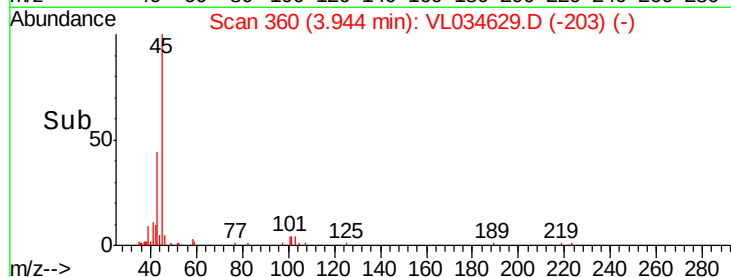
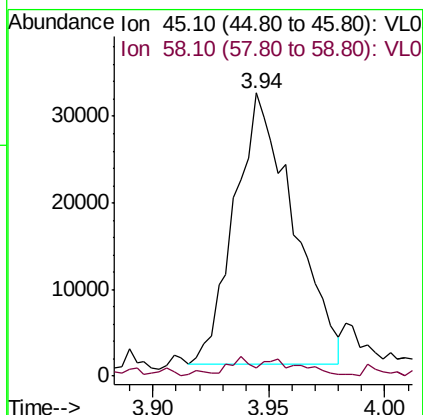
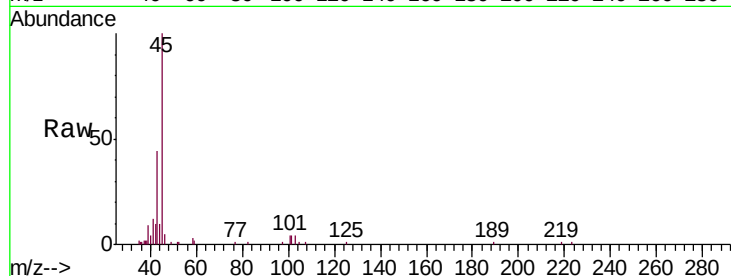




#19
Isopropyl Alcohol
Concen: 0.713 ppbv
RT: 3.94 min Scan# 360
Delta R.T. 0.00 min
Lab File: VL034629.D
Acq: 18 Feb 2020 18:21

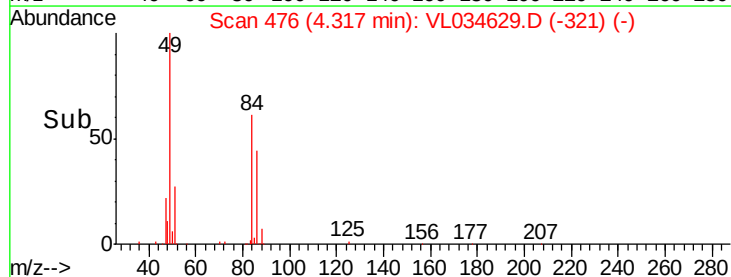
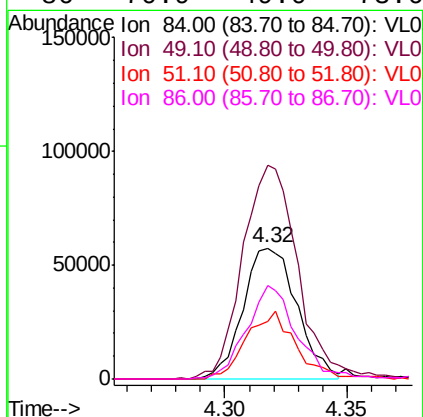
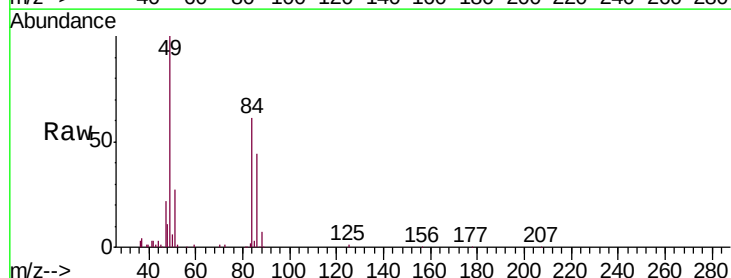
Instrument :
MSVOA_L
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IR-PR-IA

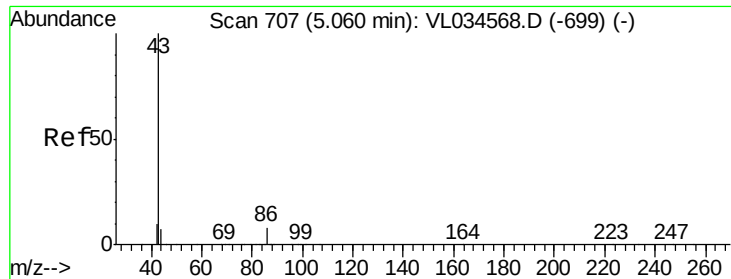
Tgt Ion: 45 Resp: 55129
Ion Ratio Lower Upper
45 100
58 282.5 1.7 2.5#



#20
Methylene Chloride
Concen: 1.747 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.00 min
Lab File: VL034629.D
Acq: 18 Feb 2020 18:21

Tgt Ion: 84 Resp: 88137
Ion Ratio Lower Upper
84 100
49 162.5 122.4 183.6
51 43.8 38.6 57.8
86 70.9 49.0 73.6





#23

Vinyl Acetate

Concen: 0.072 ppbv

RT: 5.04 min Scan# 702

Delta R.T. -0.02 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Instrument :

MSVOA_L

ClientSampleId :

IR-PR-IA

Tgt Ion: 43 Resp: 10952

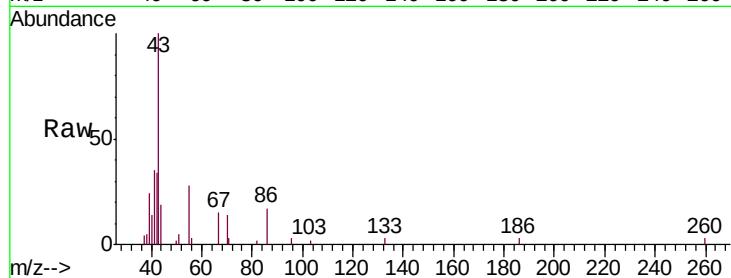
Ion Ratio Lower Upper

43 100

86 17.2 5.9 8.9#

42 30.6 8.8 13.2#

44 10.2 5.0 7.6#



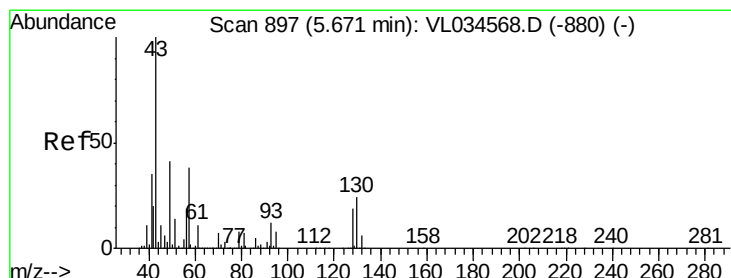
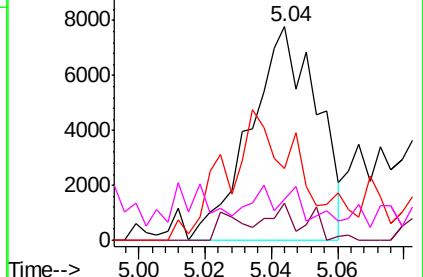
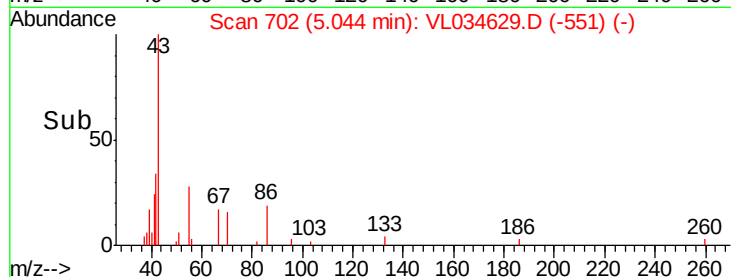
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

Time-->



#25

Ethyl Acetate

Concen: 0.437 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Tgt Ion: 43 Resp: 93715

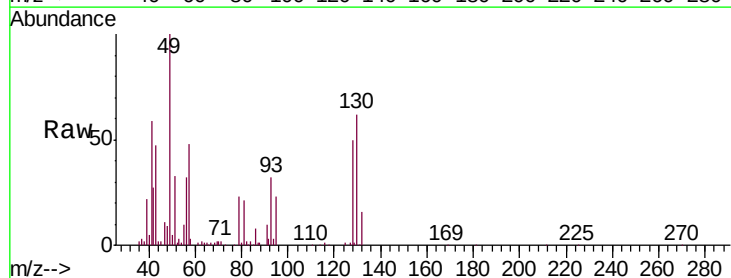
Ion Ratio Lower Upper

43 100

45 4.4 8.5 12.7#

61 4.1 7.8 11.6#

70 4.1 5.8 8.8#



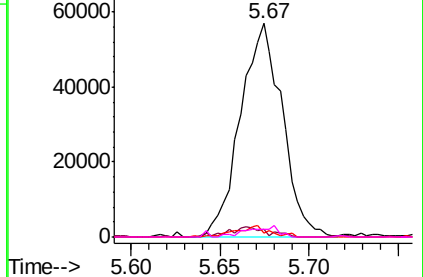
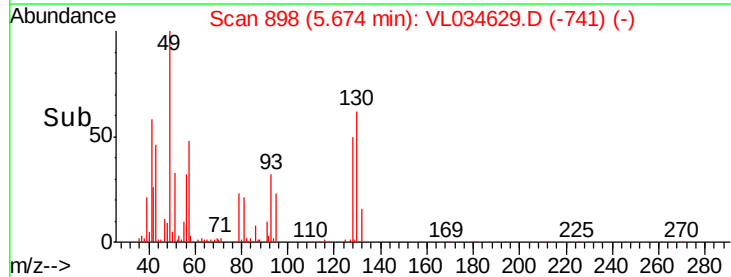
Abundance Ion 43.10 (42.80 to 43.80): VL0

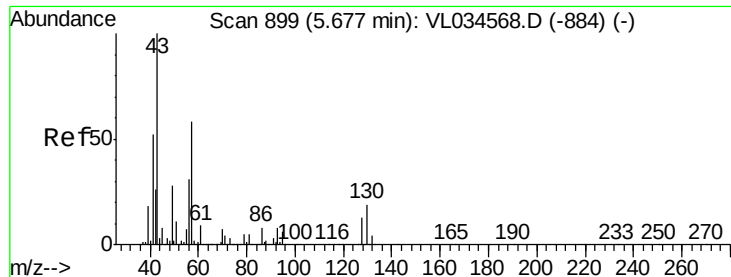
Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

Time-->





#26

Hexane

Concen: 1.116 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Instrument :

MSVOA_L

ClientSampleId :

IR-PR-IA

Tgt Ion: 57 Resp: 100203

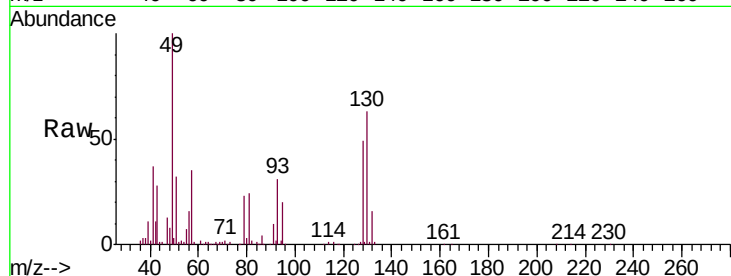
Ion Ratio Lower Upper

57 100

41 110.1 76.2 114.2

43 94.3 189.9 284.9#

56 57.7 43.6 65.4

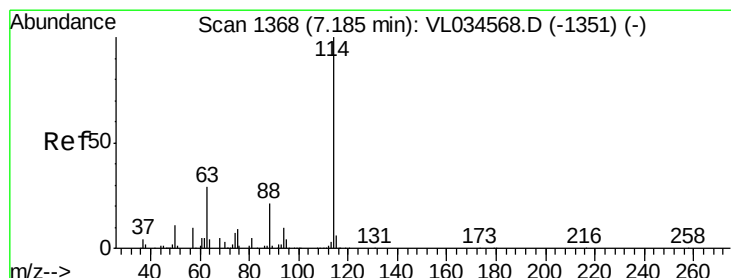
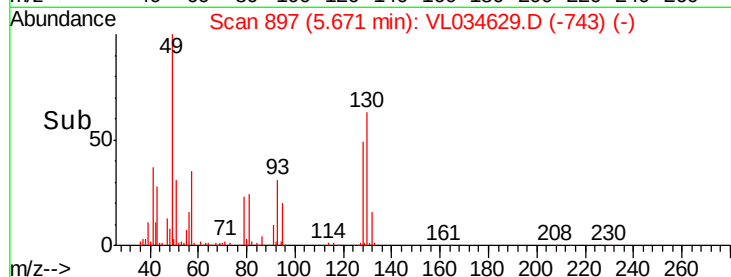
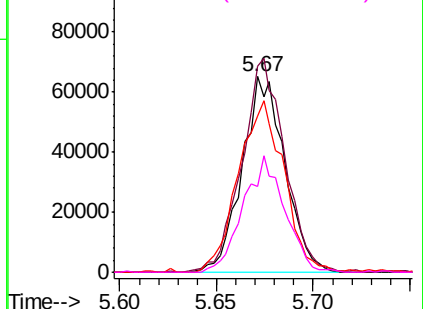


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

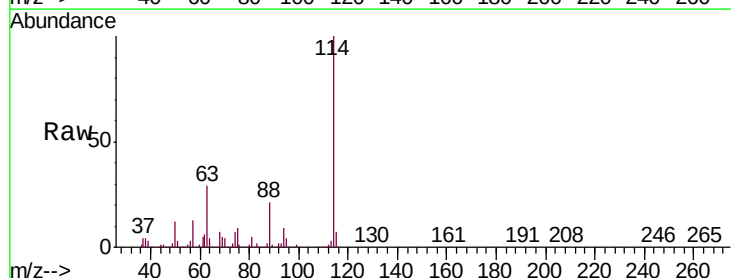
Tgt Ion: 114 Resp: 1854668

Ion Ratio Lower Upper

114 100

63 29.6 24.1 36.1

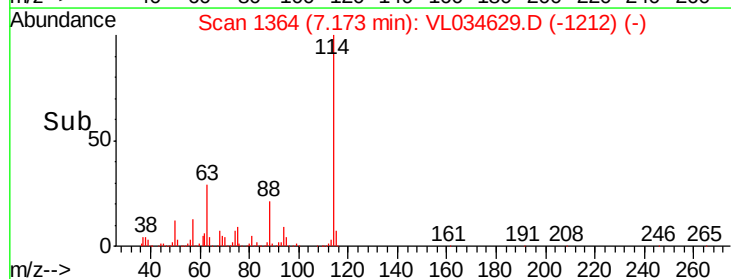
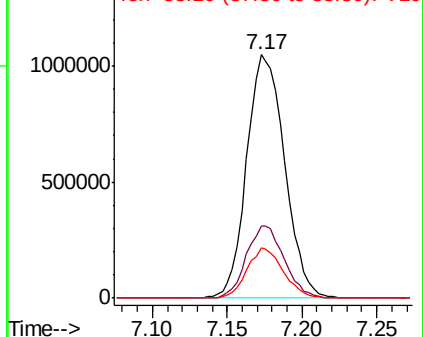
88 19.7 15.9 23.9

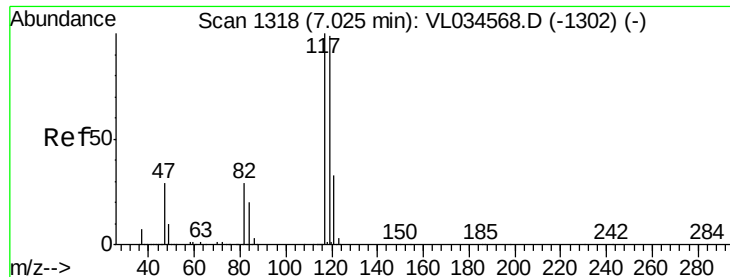


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.043 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Instrument :

MSVOA_L

ClientSampleId :

IR-PR-IA

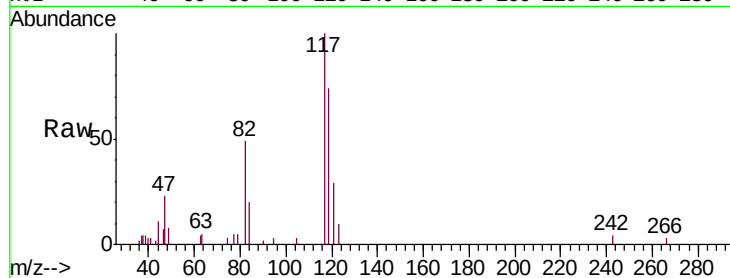
Tgt Ion: 117 Resp: 7548

Ion Ratio Lower Upper

117 100

119 63.7 79.5 119.3#

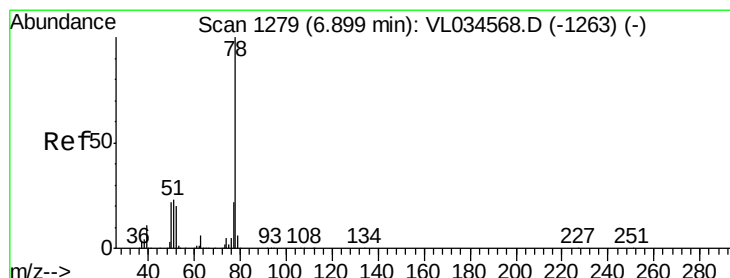
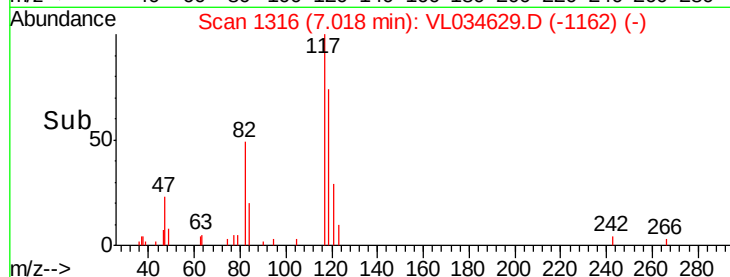
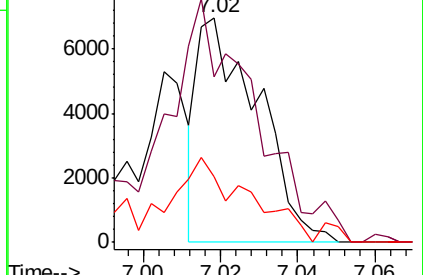
121 22.2 26.2 39.2#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.101 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

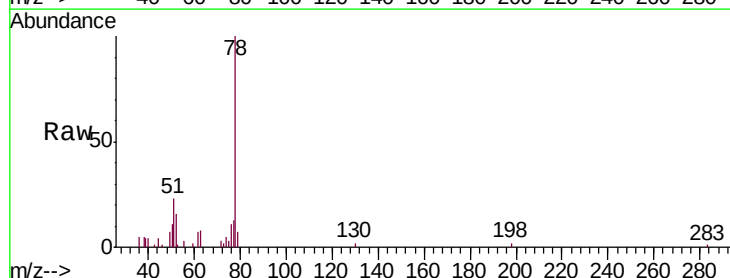
Tgt Ion: 78 Resp: 16592

Ion Ratio Lower Upper

78 100

77 10.8 17.3 25.9#

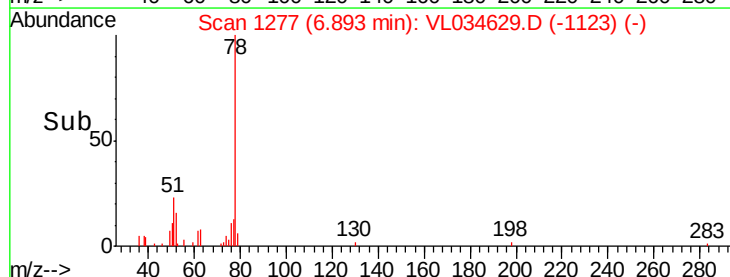
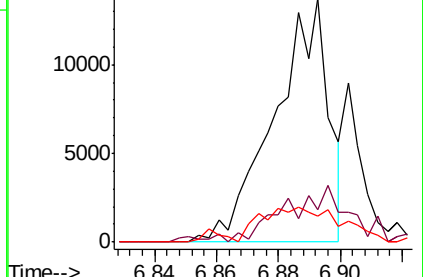
50 10.5 17.4 26.2#

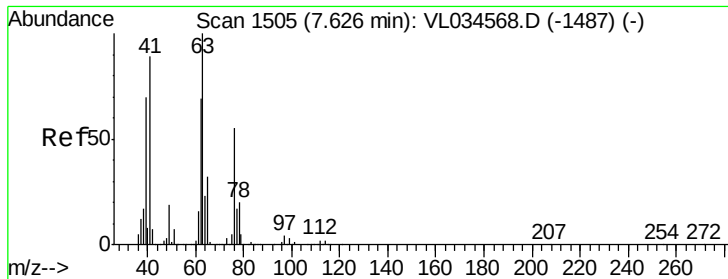


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#39

1,2-Dichloropropane

Concen: 7.991 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.45 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Instrument :

MSVOA_L

ClientSampleId :

IR-PR-IA

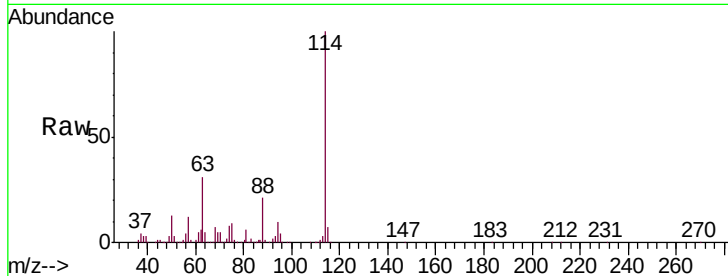
Tgt Ion: 63 Resp: 546370

Ion Ratio Lower Upper

63 100

41 0.0 71.0 106.4#

62 18.9 55.4 83.0#

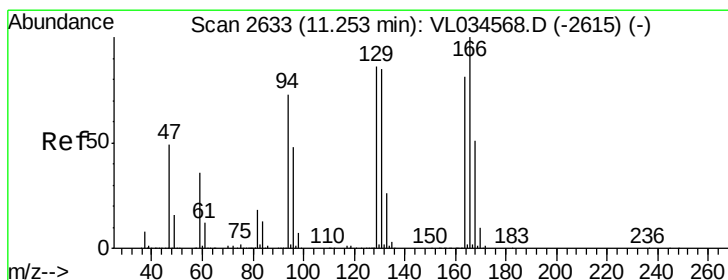
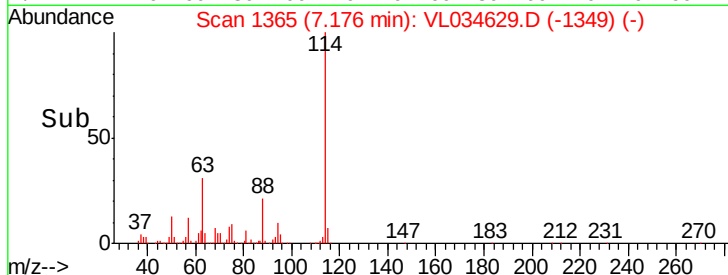
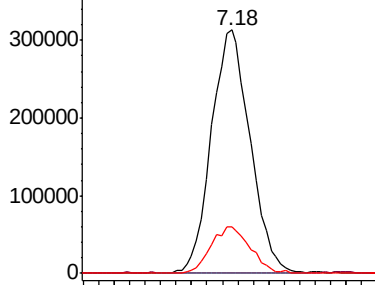


Abundance

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



#52

Tetrachloroethene

Concen: 0.079 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. -0.02 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Tgt Ion: 164 Resp: 5252

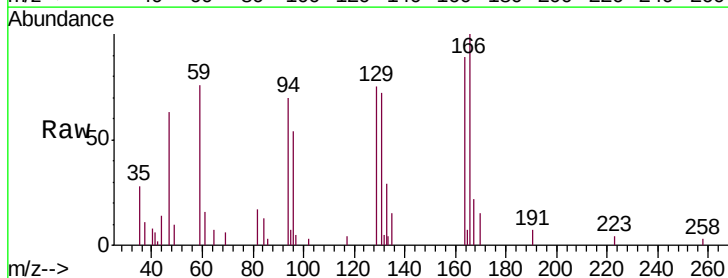
Ion Ratio Lower Upper

164 100

166 77.1 99.0 148.4#

129 0.0 85.3 127.9#

131 41.4 84.2 126.2#



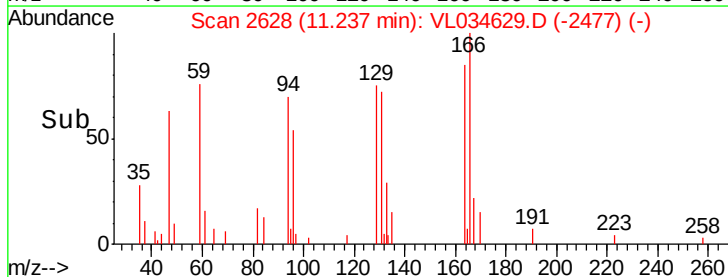
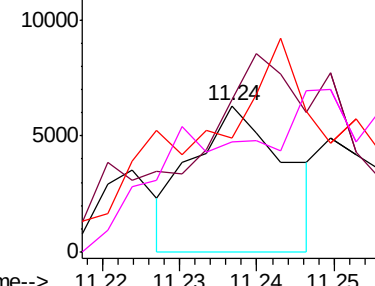
Abundance

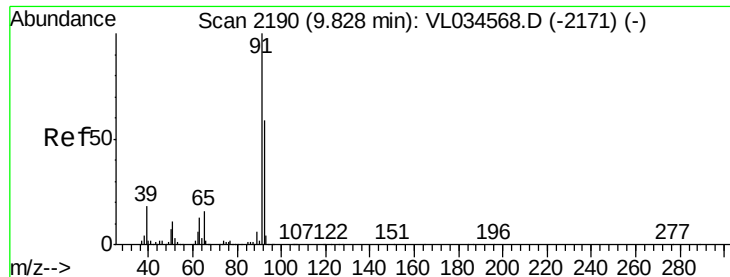
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 2.743 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

Instrument :

MSVOA_L

ClientSampleId :

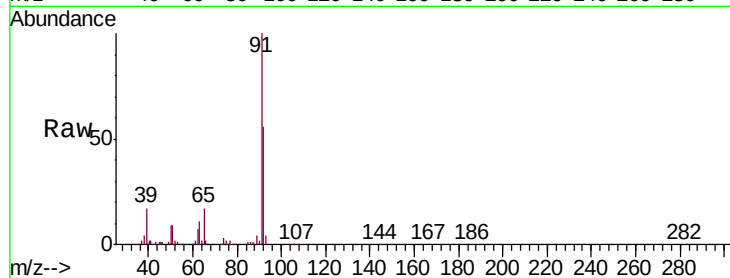
IR-PR-IA

Tgt Ion: 91 Resp: 497055

Ion Ratio Lower Upper

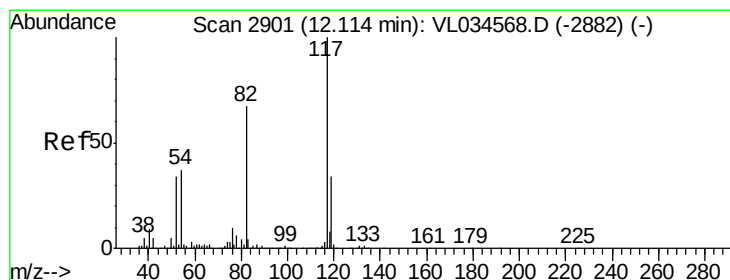
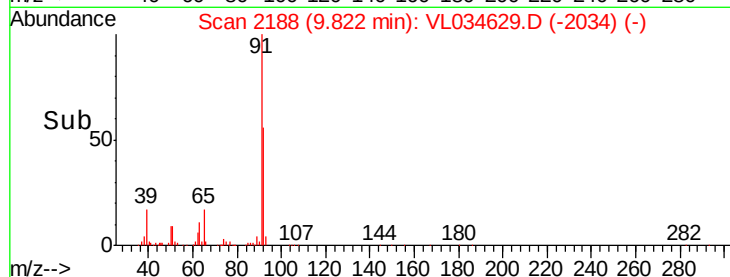
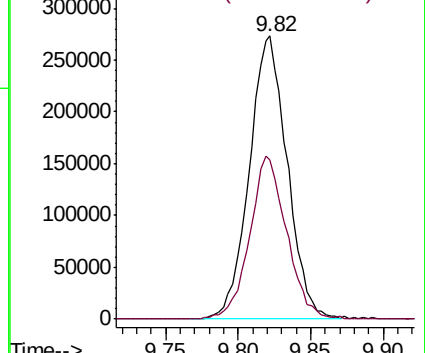
91 100

92 56.2 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL034629.D

Acq: 18 Feb 2020 18:21

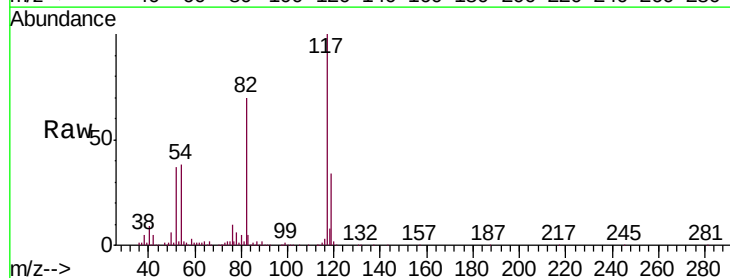
Tgt Ion: 117 Resp: 1848130

Ion Ratio Lower Upper

117 100

82 70.6 54.2 81.4

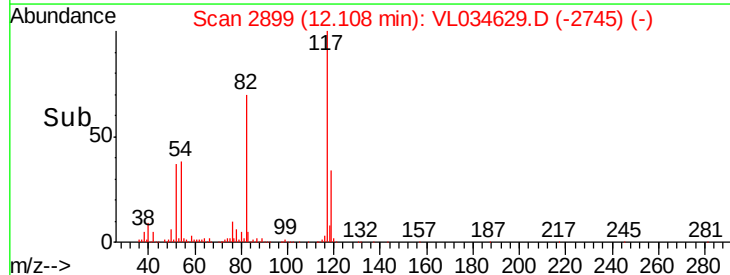
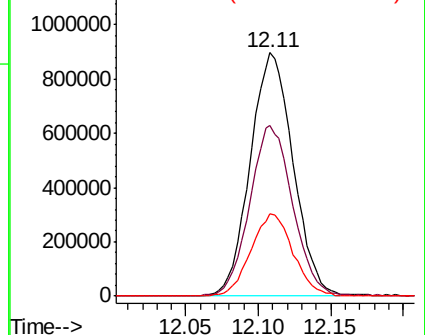
119 33.5 26.1 39.1

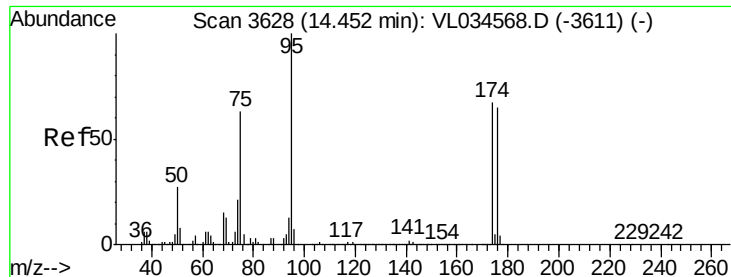


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

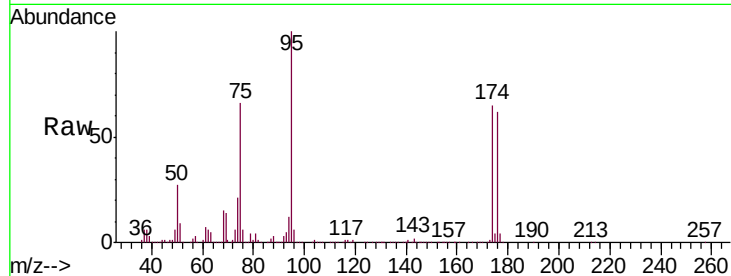




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.237 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.01 min
 Lab File: VL034629.D
 Acq: 18 Feb 2020 18:21

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PR-IA

Tgt Ion: 95 Resp: 1599004
 Ion Ratio Lower Upper
 95 100
 174 65.1 52.3 78.5
 175 4.7 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

