

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL010220\
 Data File : VL034548.D
 Acq On : 2 Jan 2020 16:00
 Operator : SY/AP
 Sample : K6473-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MJ-1DL

Quant Time: Jan 03 01:10:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1041837	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2024872	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	1966504	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1644092	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

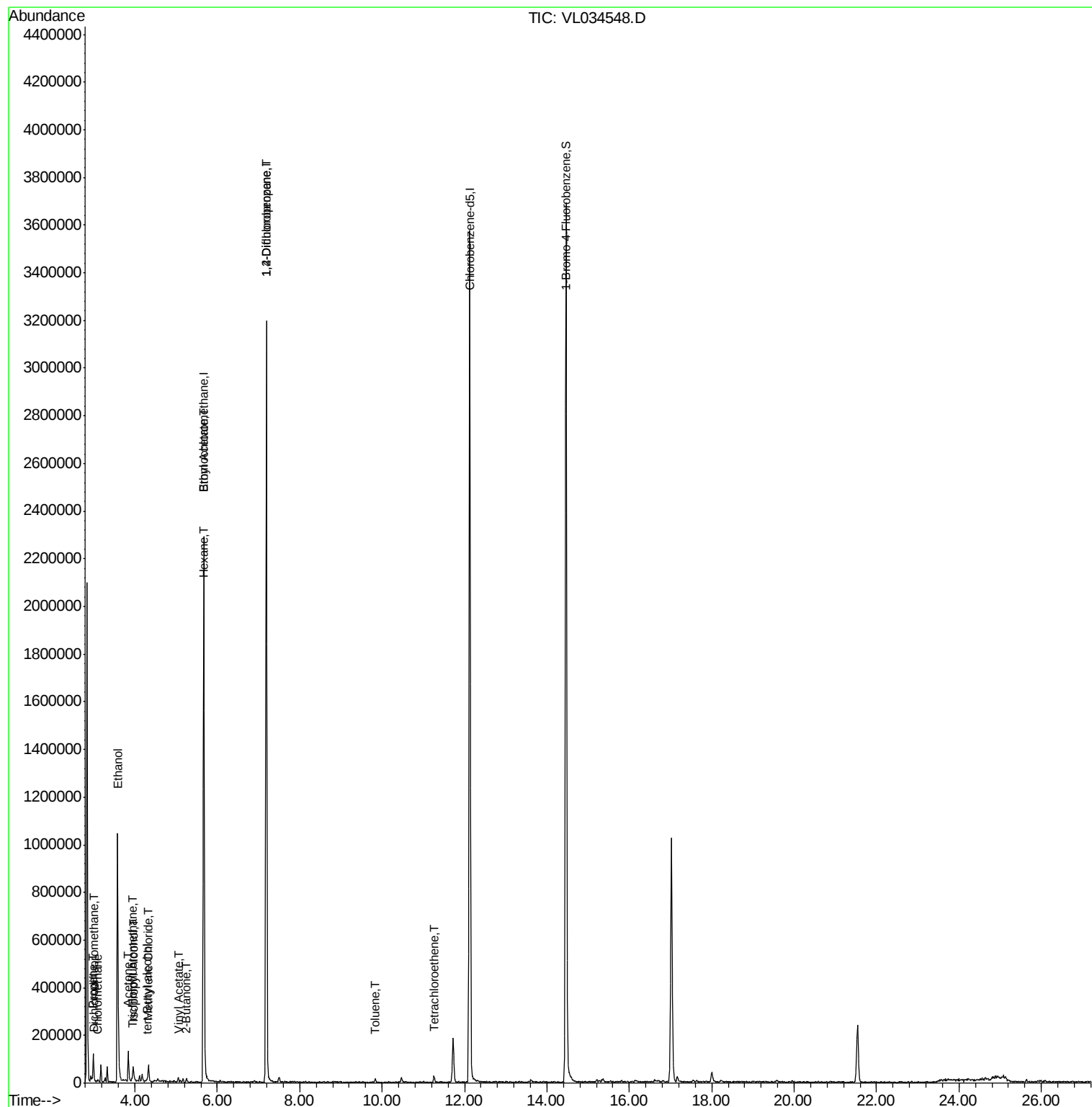
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	8412	0.051	ppbv	91
4) Chloromethane	3.11	50	4246	0.058	ppbv #	83
9) Propene	2.99	41	24005	0.502	ppbv #	70
11) Trichlorofluoromethane	3.93	101	4190	0.022	ppbv #	75
13) Ethanol	3.57	45	1028844	77.480	ppbv	100
15) Acetone	3.83	43	114871	0.755	ppbv	100
17) tert-Butyl alcohol	4.29	59	3036	0.025	ppbv #	60
19) Isopropyl Alcohol	3.95	45	54447	0.553	ppbv #	89
20) Methylene Chloride	4.33	84	14759	0.247	ppbv #	78
23) Vinyl Acetate	5.06	43	5577	0.032	ppbv #	37
25) Ethyl Acetate	5.68	43	6173	0.026	ppbv #	76
26) Hexane	5.68	57	7820	0.078	ppbv #	64
34) 2-Butanone	5.25	43	15220	0.105	ppbv #	89
39) 1,2-Dichloropropane	7.19	63	598713	8.249	ppbv #	22
52) Tetrachloroethene	11.26	164	3873	0.056	ppbv #	35
53) Toluene	9.83	91	5150	0.027	ppbv #	15

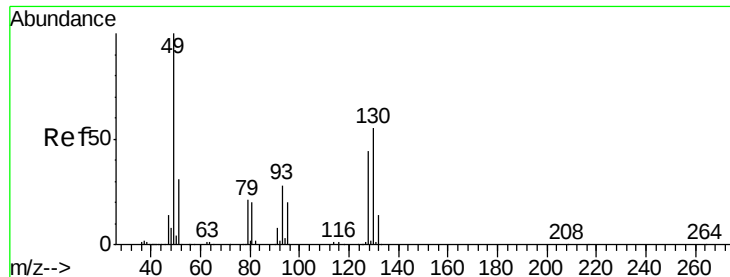
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL010220\
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Quant Time: Jan 03 01:10:56 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019
QLast Update : Mon Dec 30 14:58:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL034548.D

Acq: 2 Jan 2020 16:00

Instrument :

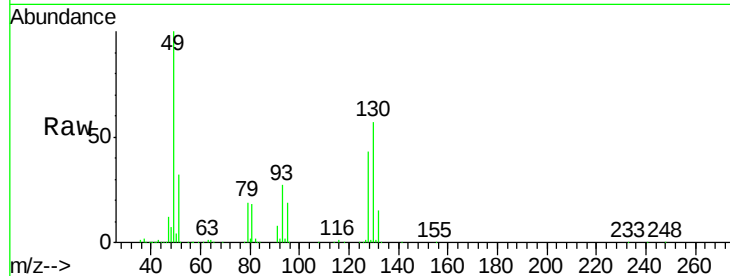
MSVOA_L

ClientSampled :

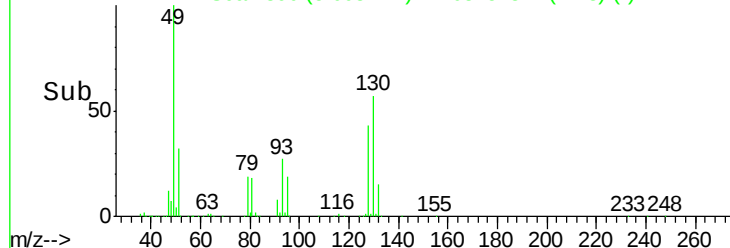
MJ-1DL

Tgt Ion: 49 Resp: 1041837

Ion	Ratio	Lower	Upper
49	100		
128	43.6	22.4	67.2
130	56.7	28.3	85.0



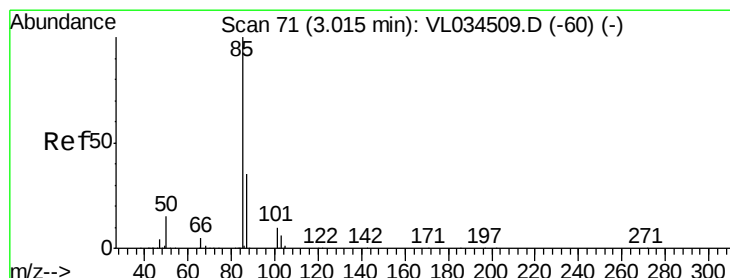
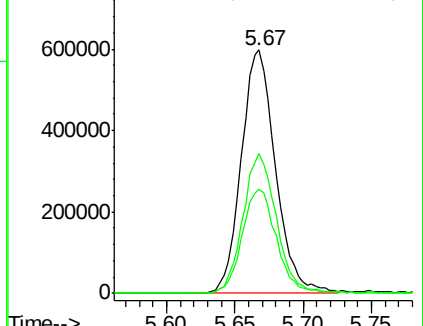
Scan 896 (5.668 min): VL034548.D (-743) (-)



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.051 ppbv

RT: 3.02 min Scan# 71

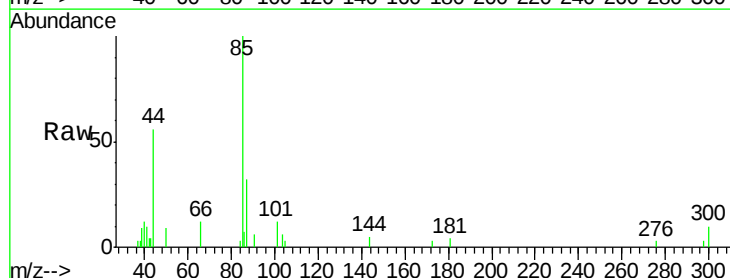
Delta R.T. -0.00 min

Lab File: VL034548.D

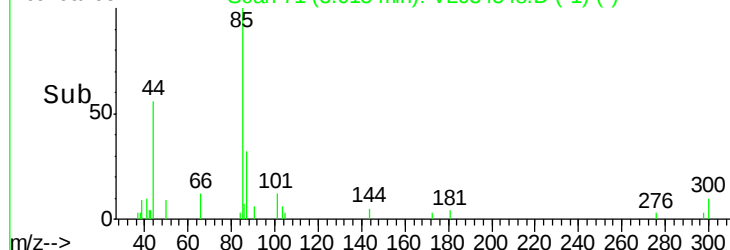
Acq: 2 Jan 2020 16:00

Tgt Ion: 85 Resp: 8412

Ion	Ratio	Lower	Upper
85	100		
87	29.8	27.9	41.9

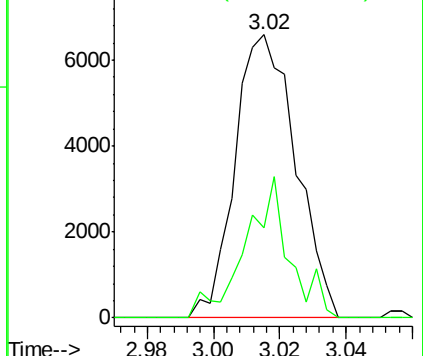


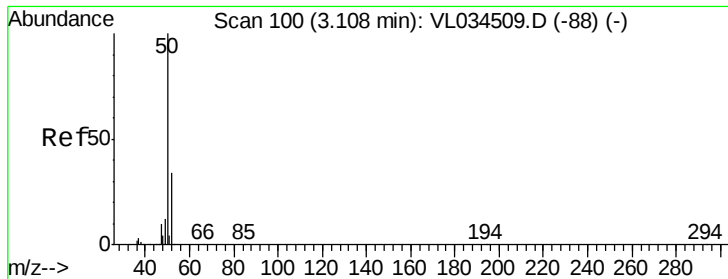
Scan 71 (3.015 min): VL034548.D (-1) (-)



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.058 ppbv

RT: 3.11 min Scan# 100

Delta R.T. -0.00 min

Lab File: VL034548.D

Acq: 2 Jan 2020 16:00

Instrument :

MSVOA_L

ClientSampleId :

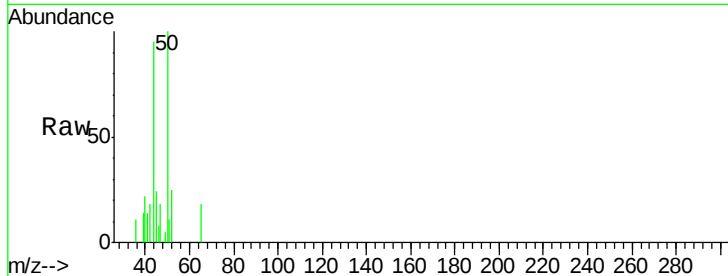
MJ-1DL

Tgt Ion: 50 Resp: 4246

Ion Ratio Lower Upper

50 100

52 24.5 27.6 41.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.11

4000

3000

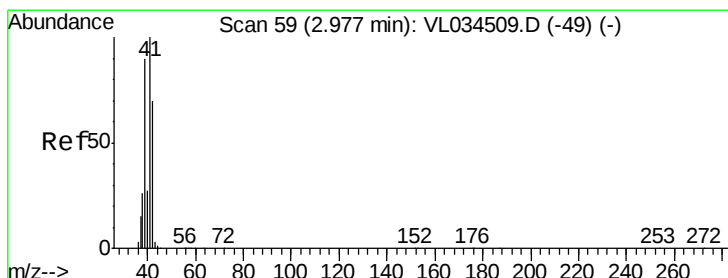
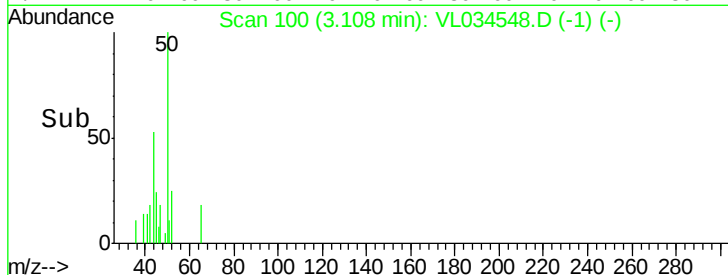
2000

1000

0

Time-->

3.08 3.10 3.12 3.14



#9

Propene

Concen: 0.502 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034548.D

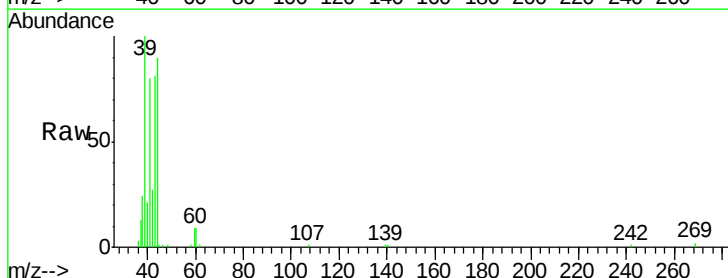
Acq: 2 Jan 2020 16:00

Tgt Ion: 41 Resp: 24005

Ion Ratio Lower Upper

41 100

42 45.4 55.8 83.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

25000

20000

15000

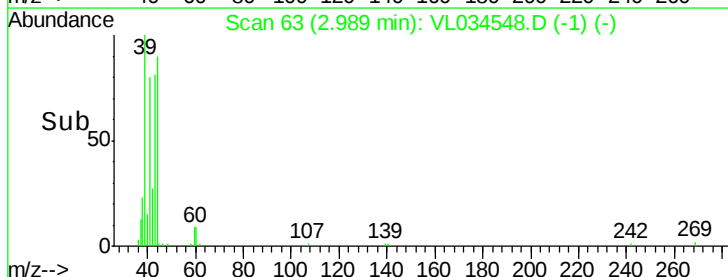
10000

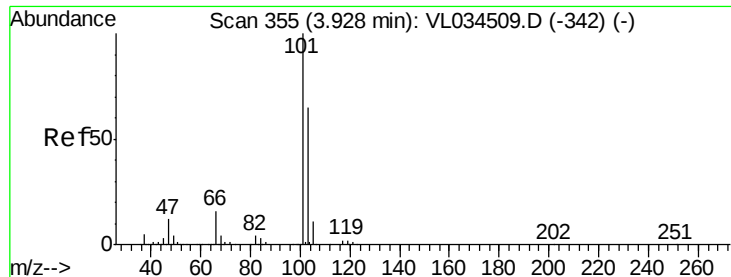
5000

0

Time-->

2.95 3.00





#11

Trichlorofluoromethane

Concen: 0.022 ppbv

RT: 3.93 min Scan# 356

Delta R.T. 0.00 min

Lab File: VL034548.D

Acq: 2 Jan 2020 16:00

Instrument :

MSVOA_L

ClientSampleId :

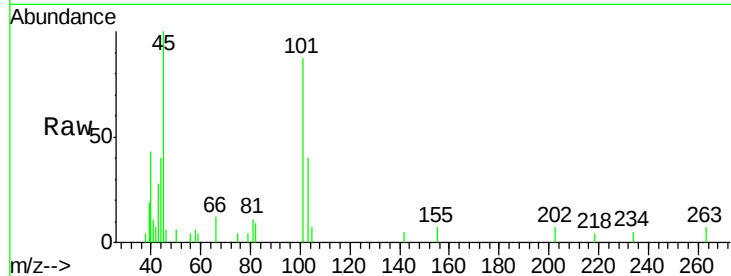
MJ-1DL

Tgt Ion:101 Resp: 4190

Ion Ratio Lower Upper

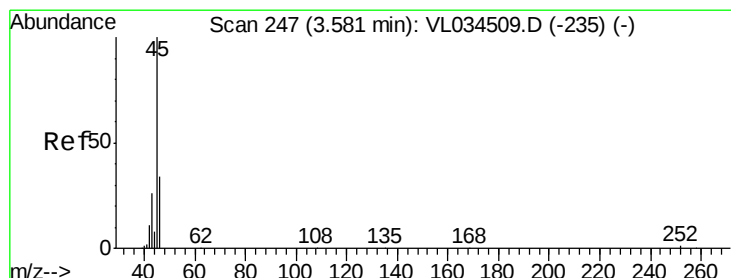
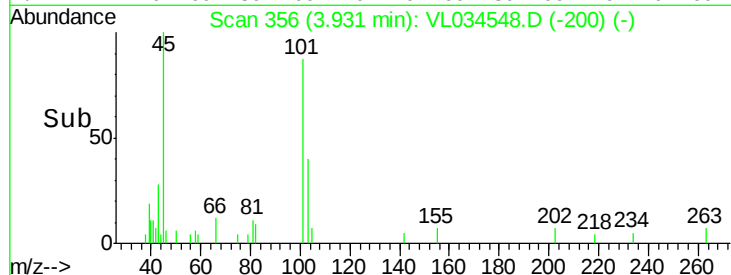
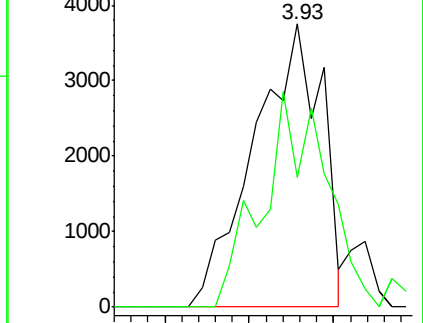
101 100

103 45.7 52.1 78.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 77.480 ppbv

RT: 3.57 min Scan# 245

Delta R.T. -0.01 min

Lab File: VL034548.D

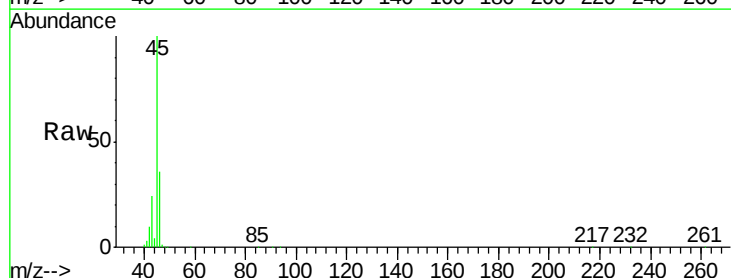
Acq: 2 Jan 2020 16:00

Tgt Ion: 45 Resp: 1028844

Ion Ratio Lower Upper

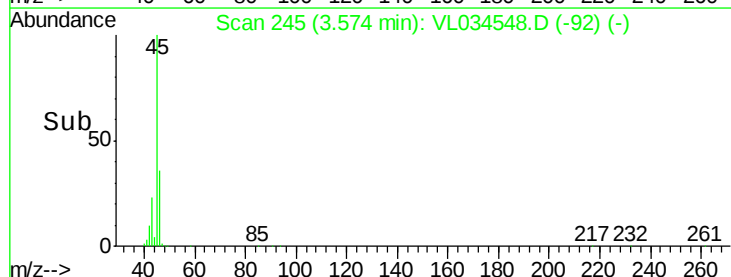
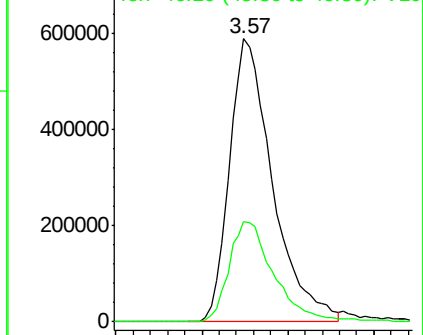
45 100

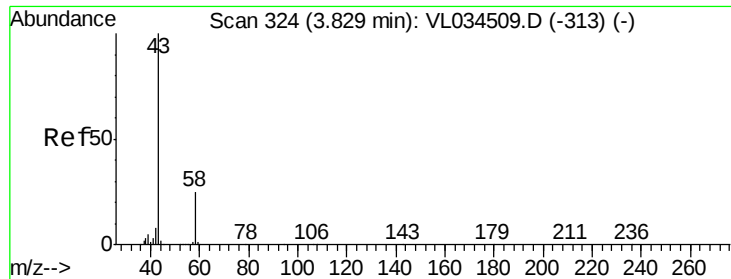
46 37.4 14.9 59.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.755 ppbv

RT: 3.83 min Scan# 326

Delta R.T. 0.01 min

Lab File: VL034548.D

Acq: 2 Jan 2020 16:00

Instrument :

MSVOA_L

ClientSampleId :

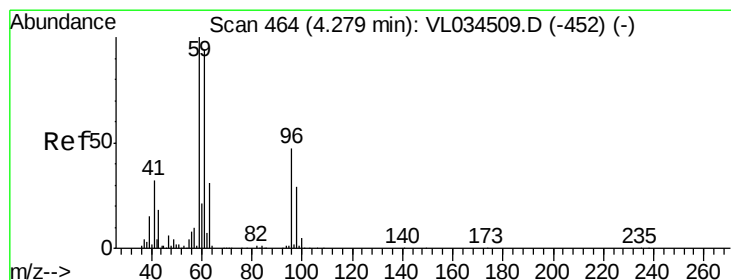
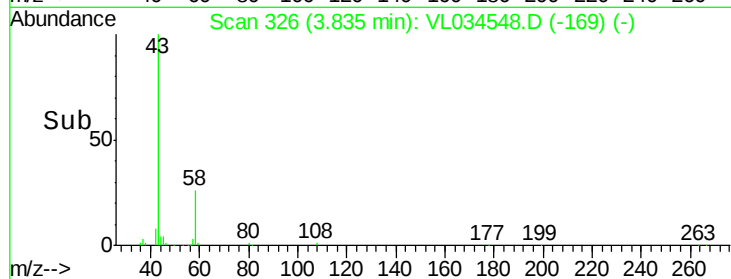
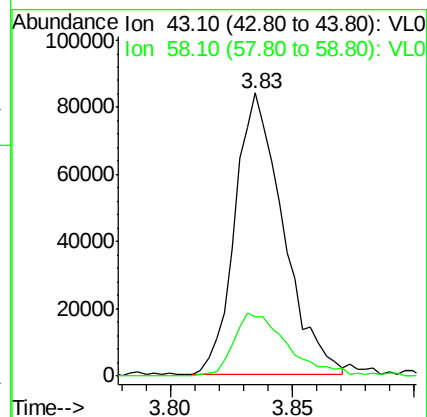
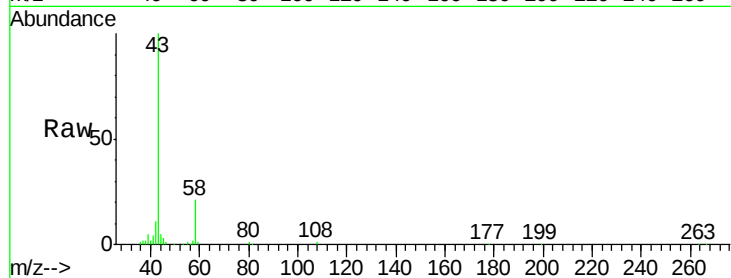
MJ-1DL

Tgt Ion: 43 Resp: 114871

Ion Ratio Lower Upper

43 100

58 25.7 20.4 30.6



#17

tert-Butyl alcohol

Concen: 0.025 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.01 min

Lab File: VL034548.D

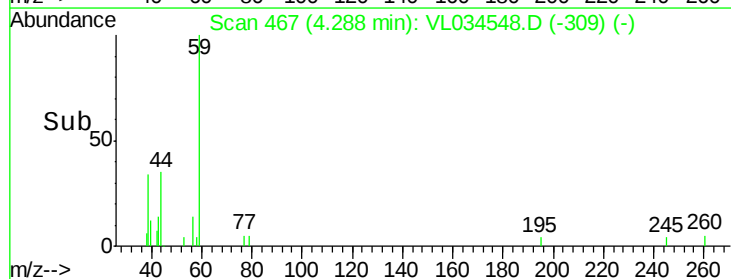
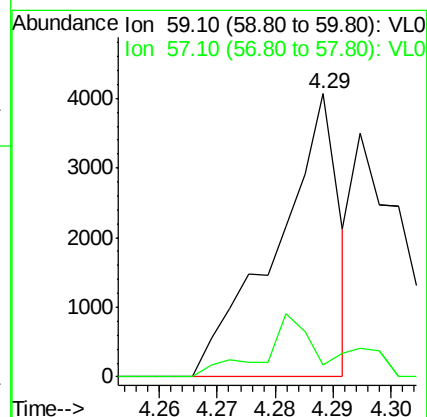
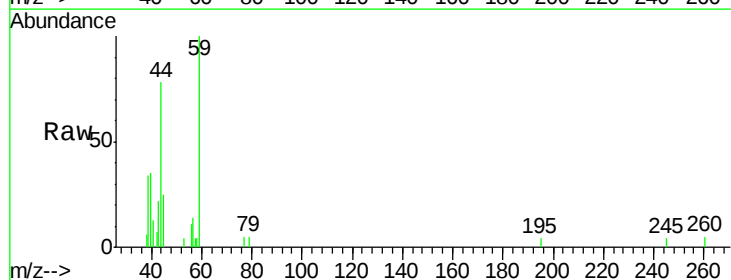
Acq: 2 Jan 2020 16:00

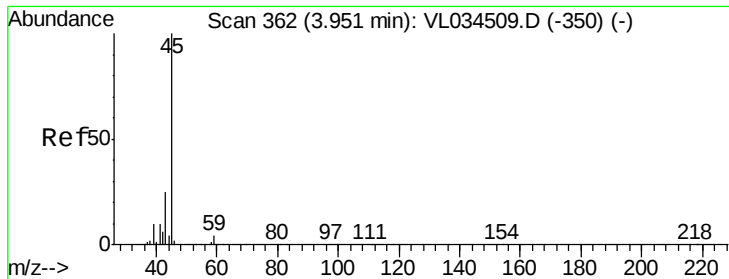
Tgt Ion: 59 Resp: 3036

Ion Ratio Lower Upper

59 100

57 25.8 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 0.553 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL034548.D

Acq: 2 Jan 2020 16:00

Instrument :

MSVOA_L

ClientSampleId :

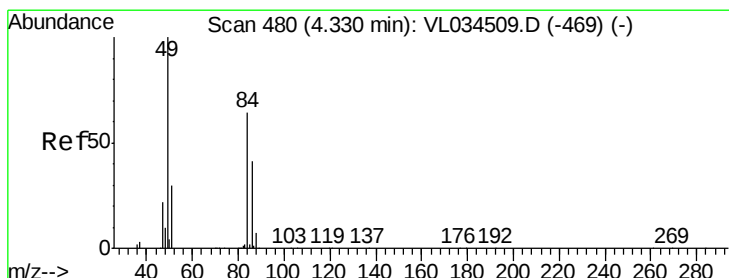
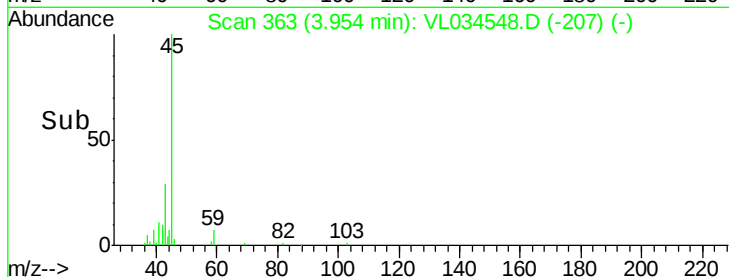
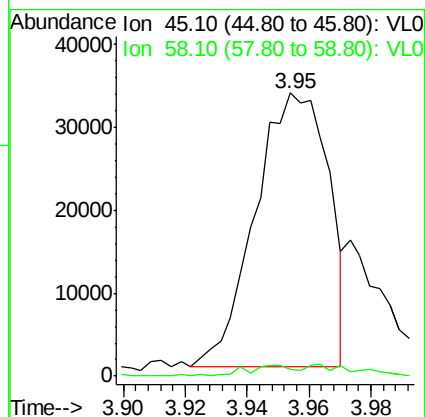
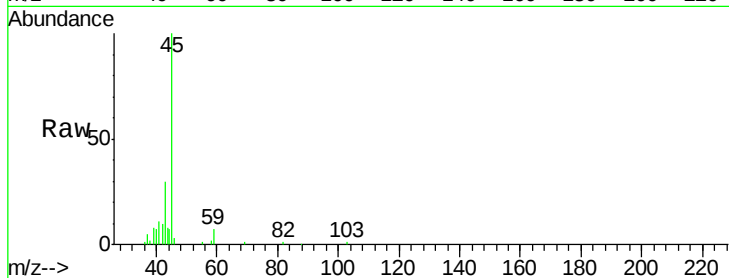
MJ-1DL

Tgt Ion: 45 Resp: 54447

Ion Ratio Lower Upper

45 100

58 5.6 1.4 2.0#



#20

Methylene Chloride

Concen: 0.247 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL034548.D

Acq: 2 Jan 2020 16:00

Tgt Ion: 84 Resp: 14759

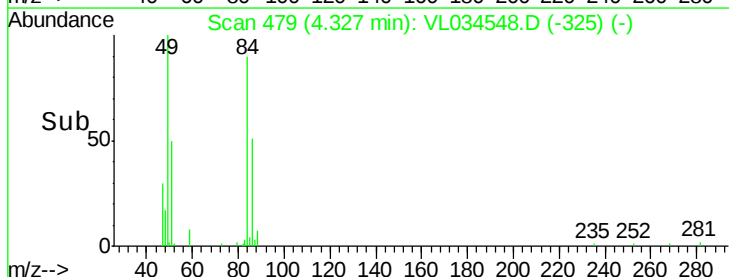
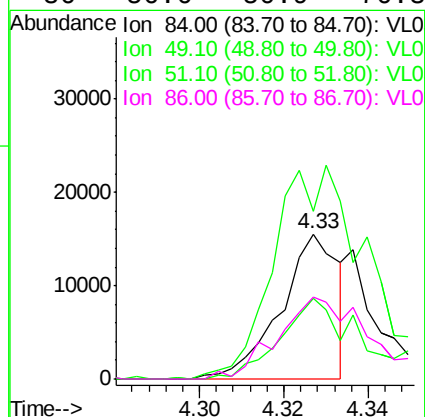
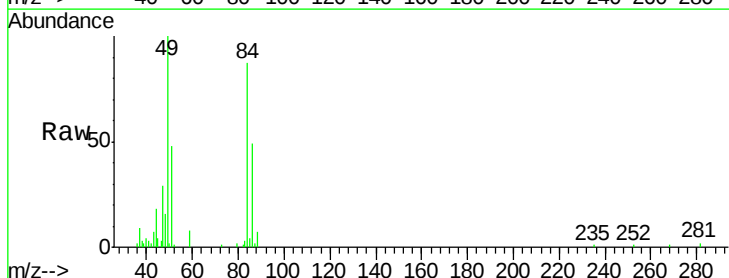
Ion Ratio Lower Upper

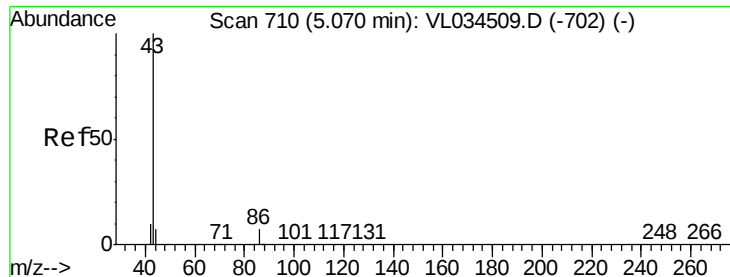
84 100

49 117.7 124.4 186.6#

51 55.9 37.0 55.6#

86 56.6 50.9 76.3





#23

Vinyl Acetate

Concen: 0.032 ppbv

RT: 5.06 min Scan# 708

Delta R.T. -0.01 min

Lab File: VL034548.D

Acq: 2 Jan 2020 16:00

Instrument :

MSVOA_L

ClientSampleId :

MJ-1DL

Tgt Ion: 43 Resp: 5577

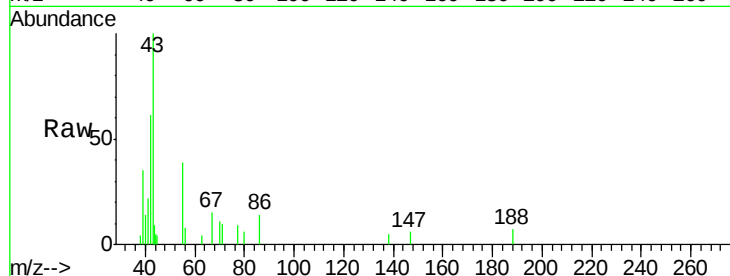
Ion Ratio Lower Upper

43 100

86 15.1 5.4 8.2#

42 53.3 8.9 13.3#

44 0.0 5.0 7.4#

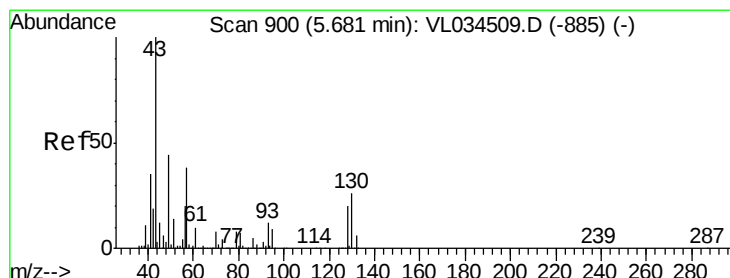
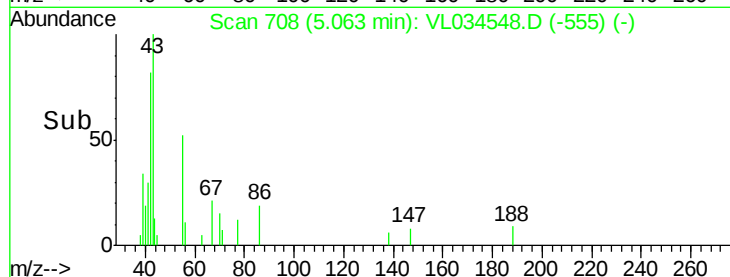
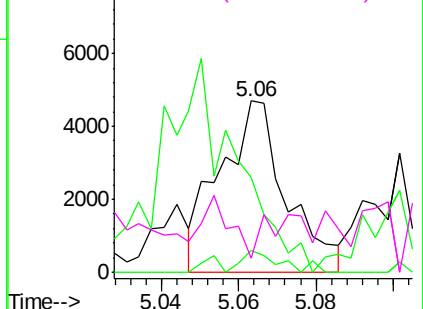


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 0.026 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.00 min

Lab File: VL034548.D

Acq: 2 Jan 2020 16:00

Tgt Ion: 43 Resp: 6173

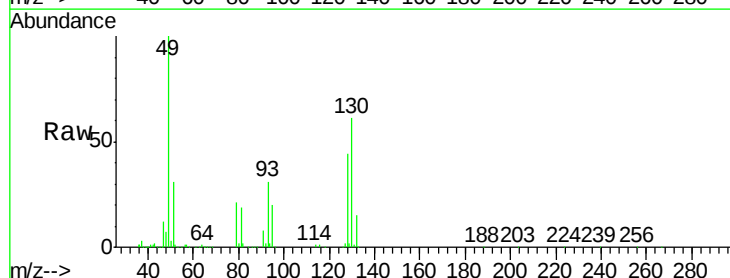
Ion Ratio Lower Upper

43 100

45 29.9 8.3 12.5#

61 13.7 7.8 11.6#

70 6.9 5.8 8.8

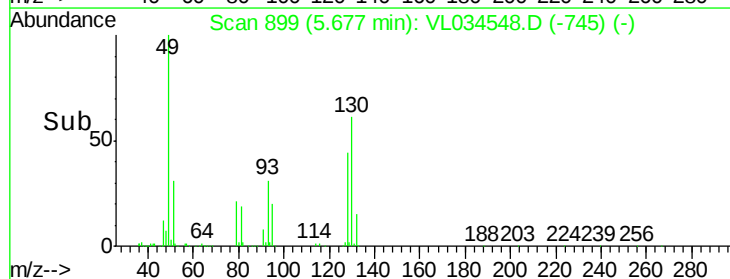
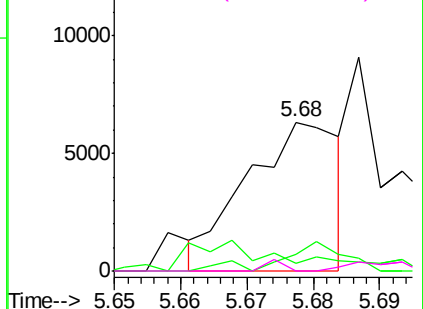


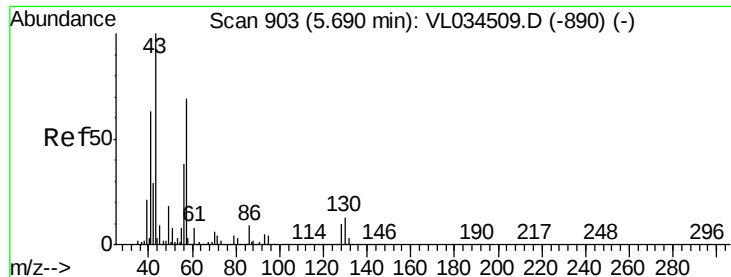
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.078 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL034548.D

Acq: 2 Jan 2020 16:00

Instrument :

MSVOA_L

ClientSampleId :

MJ-1DL

Tgt Ion: 57 Resp: 7820

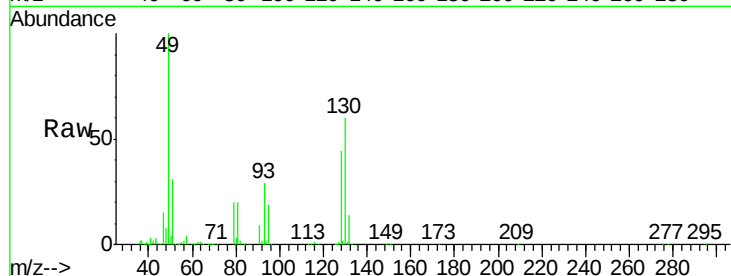
Ion Ratio Lower Upper

57 100

41 117.1 75.3 112.9#

43 168.3 189.4 284.2#

56 82.2 42.8 64.2#

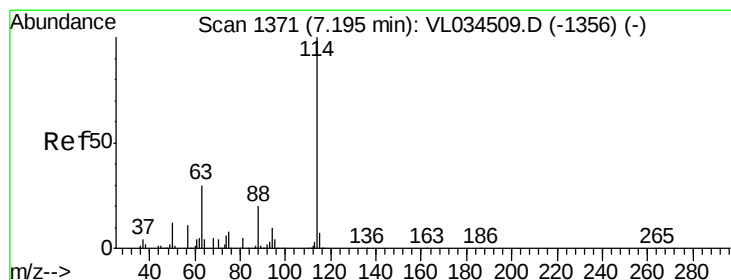
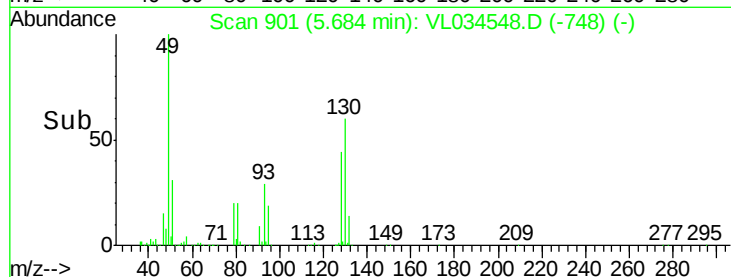
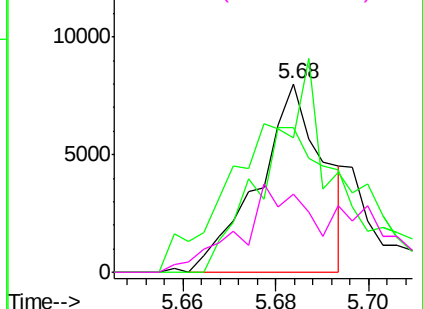


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.19 min Scan# 1369

Delta R.T. -0.01 min

Lab File: VL034548.D

Acq: 2 Jan 2020 16:00

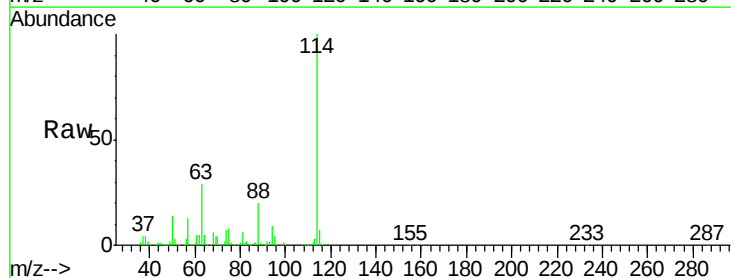
Tgt Ion: 114 Resp: 2024872

Ion Ratio Lower Upper

114 100

63 29.7 24.1 36.1

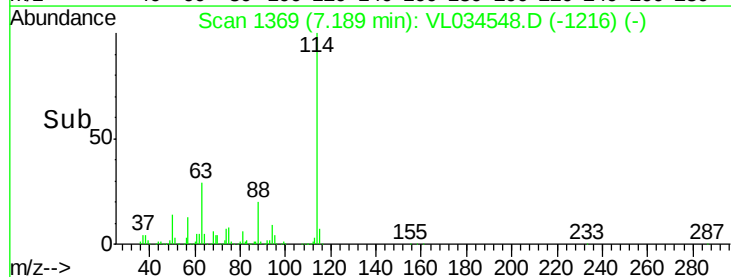
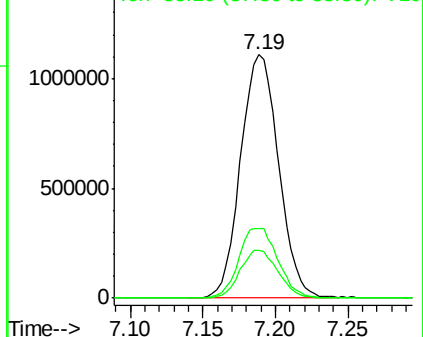
88 19.7 15.7 23.5

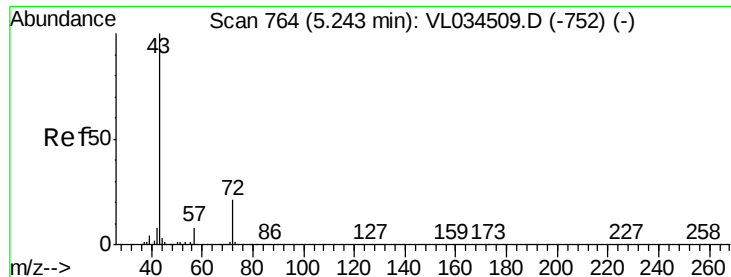


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

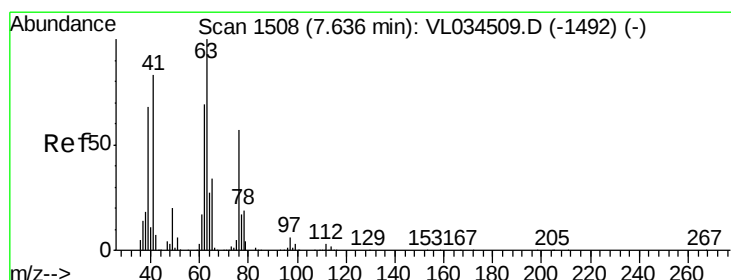
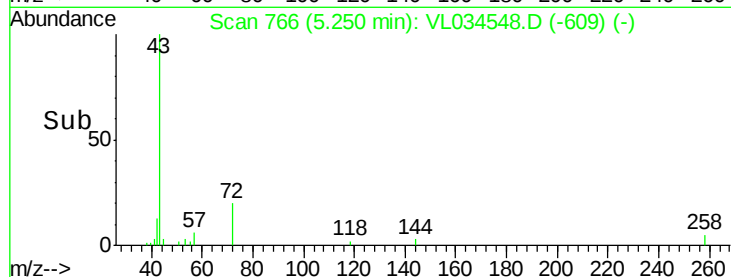
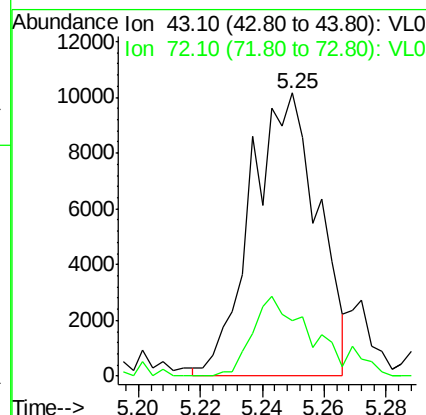
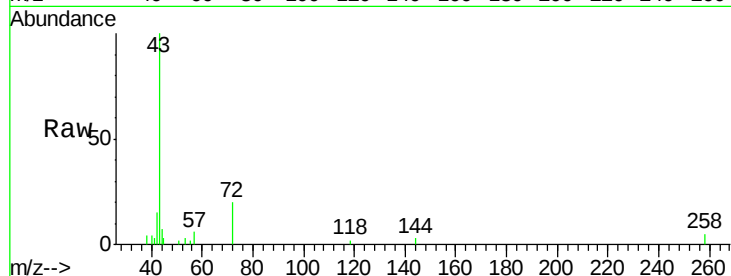




#34
 2-Butanone
 Concen: 0.105 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.01 min
 Lab File: VL034548.D
 Acq: 2 Jan 2020 16:00

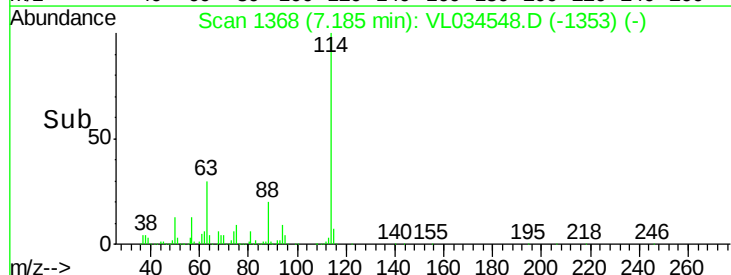
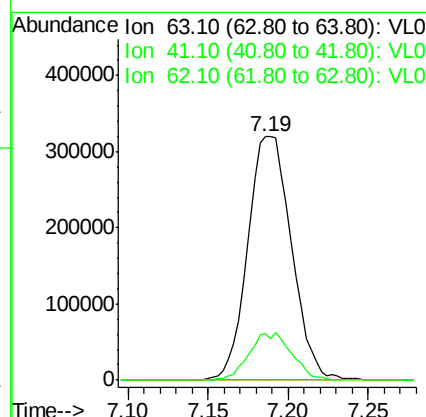
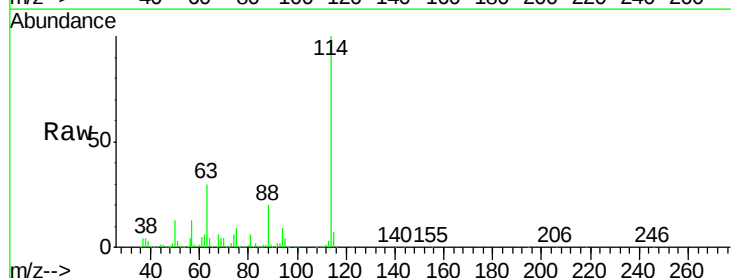
Instrument :
 MSVOA_L
 ClientSampleId :
 MJ-1DL

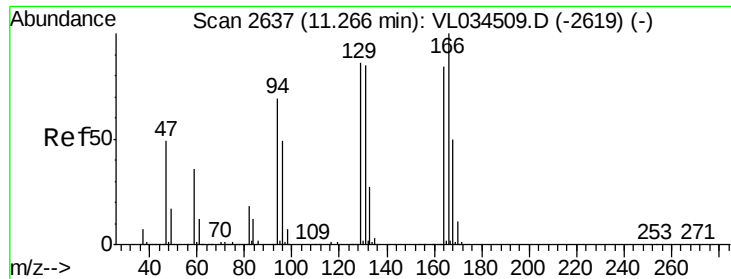
Tgt Ion: 43 Resp: 15220
 Ion Ratio Lower Upper
 43 100
 72 26.5 17.0 25.4#



#39
 1,2-Dichloropropane
 Concen: 8.249 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.45 min
 Lab File: VL034548.D
 Acq: 2 Jan 2020 16:00

Tgt Ion: 63 Resp: 598713
 Ion Ratio Lower Upper
 63 100
 41 0.1 66.1 99.1#
 62 19.0 54.9 82.3#





#52

Tetrachloroethene

Concen: 0.056 ppbv

RT: 11.26 min Scan# 2635

Delta R.T. -0.01 min

Lab File: VL034548.D

Acq: 2 Jan 2020 16:00

Instrument :

MSVOA_L

ClientSampleId :

MJ-1DL

Tgt Ion:164 Resp: 3873

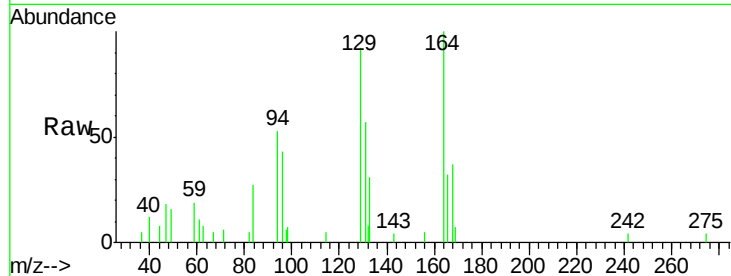
Ion Ratio Lower Upper

164 100

166 1.3 95.7 143.5#

129 113.5 82.2 123.2

131 29.3 81.3 121.9#

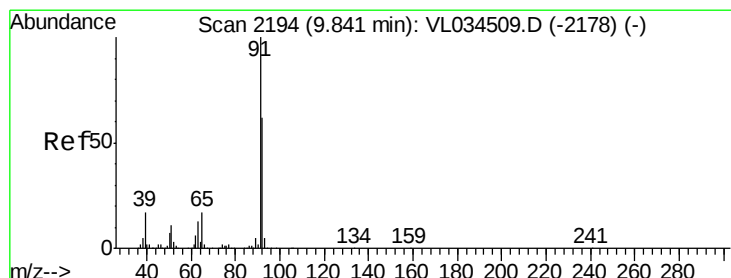
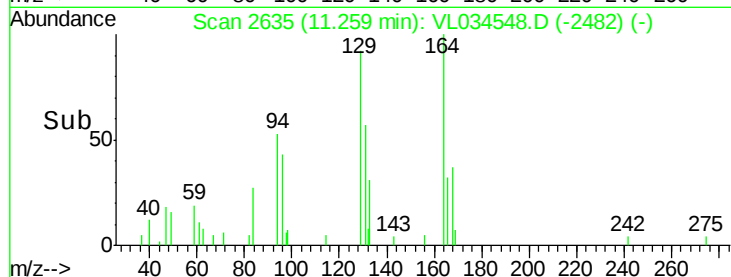
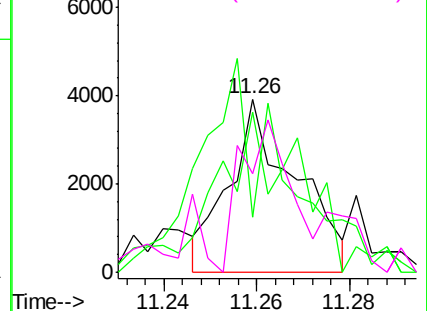


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.027 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. -0.01 min

Lab File: VL034548.D

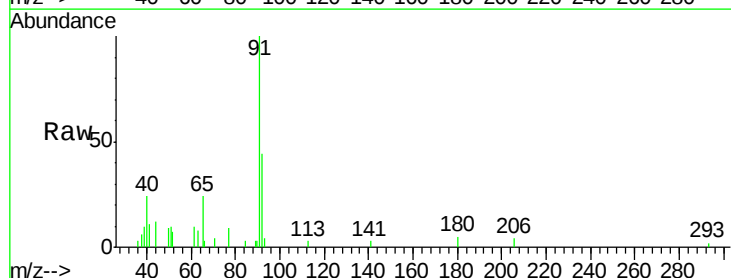
Acq: 2 Jan 2020 16:00

Tgt Ion: 91 Resp: 5150

Ion Ratio Lower Upper

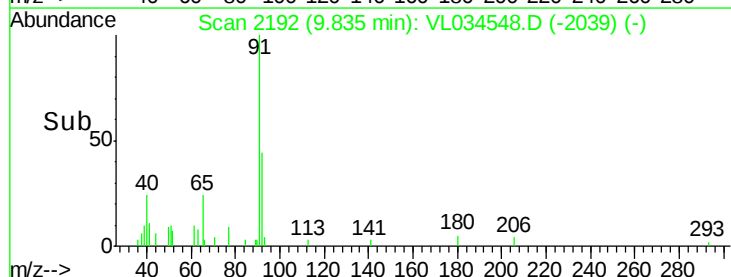
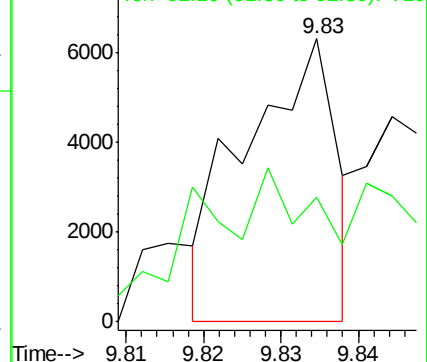
91 100

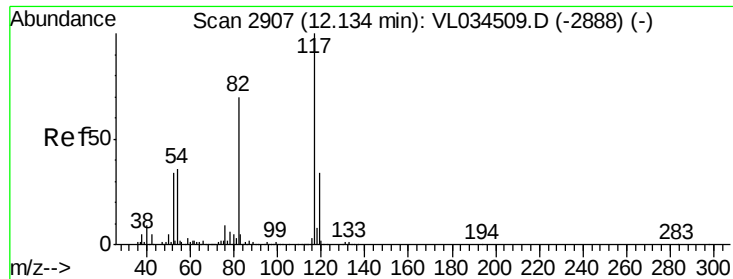
92 125.0 48.4 72.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

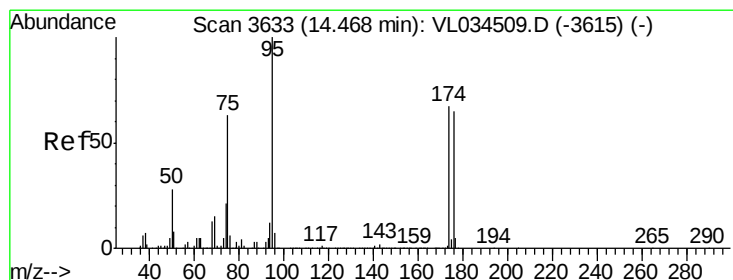
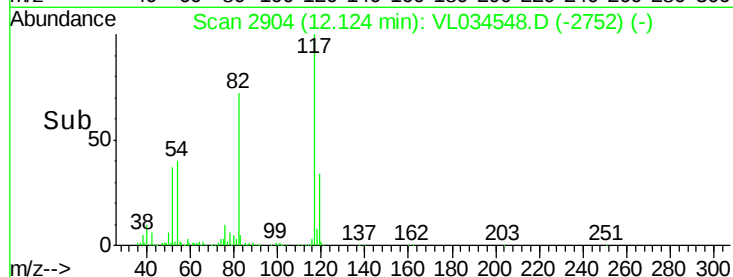
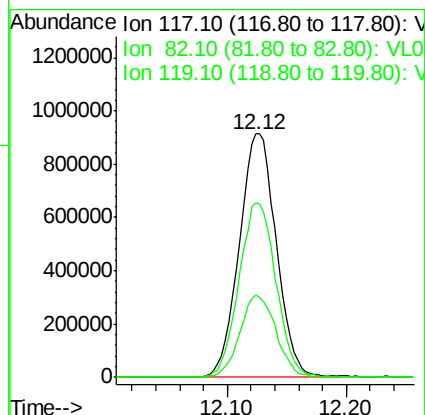
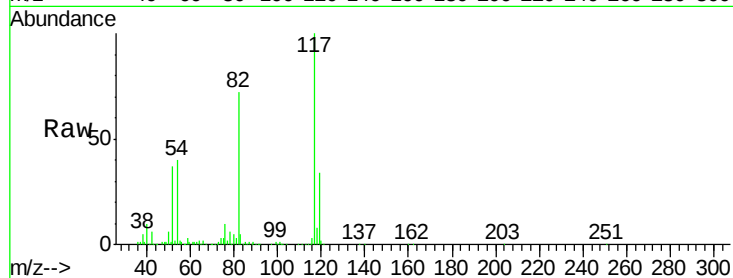




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL034548.D
Acq: 2 Jan 2020 16:00

Instrument :
MSVOA_L
ClientSampleId :
MJ-1DL

Tgt Ion: 117 Resp: 1966504
Ion Ratio Lower Upper
117 100
82 72.1 56.2 84.4
119 33.4 27.1 40.7



#68
1-Bromo-4-Fluorobenzene
Concen: 10.019 ppbv
RT: 14.46 min Scan# 3631
Delta R.T. -0.01 min
Lab File: VL034548.D
Acq: 2 Jan 2020 16:00

Tgt Ion: 95 Resp: 1644092
Ion Ratio Lower Upper
95 100
174 64.1 52.4 78.6
175 4.5 3.9 5.9

