

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL123019\
 Data File : VL034534.D
 Acq On : 31 Dec 2019 5:44
 Operator : SY/AP
 Sample : K6470-03DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 29-1DL

Quant Time: Dec 31 06:15:51 2019
 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	1039302	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2097242	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2025691	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1694961	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

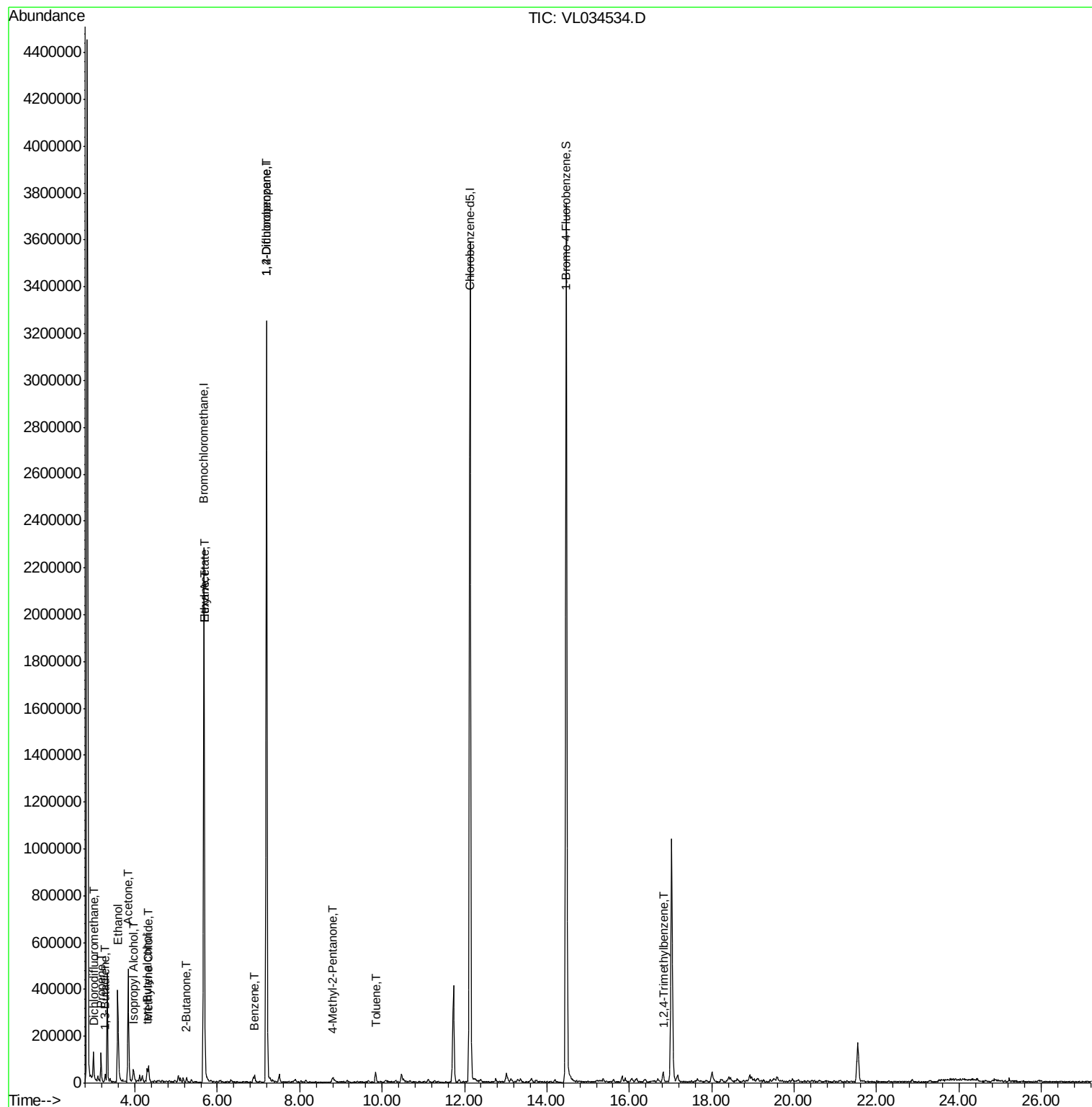
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	5443	0.033	ppbv #	78
9) Propene	3.18	41	26960	0.565	ppbv	89
13) Ethanol	3.58	45	394181	29.757	ppbv	98
15) Acetone	3.83	43	471396	3.108	ppbv	98
16) 1,3-Butadiene	3.28	39	9209	0.158	ppbv #	27
17) tert-Butyl alcohol	4.30	59	42819	0.353	ppbv #	86
19) Isopropyl Alcohol	3.96	45	58194	0.593	ppbv #	1
20) Methylene Chloride	4.33	84	14021	0.235	ppbv #	86
25) Ethyl Acetate	5.69	43	14328	0.060	ppbv #	91
26) Hexane	5.69	57	6738	0.068	ppbv #	62
34) 2-Butanone	5.25	43	12170	0.081	ppbv #	65
36) Benzene	6.91	78	13212	0.072	ppbv #	87
39) 1,2-Dichloropropane	7.19	63	615653	8.190	ppbv #	21
50) 4-Methyl-2-Pentanone	8.79	43	5401	0.025	ppbv #	40
53) Toluene	9.84	91	12387	0.062	ppbv #	14
74) 1,2,4-Trimethylbenzene	16.82	105	13229	0.047	ppbv #	56

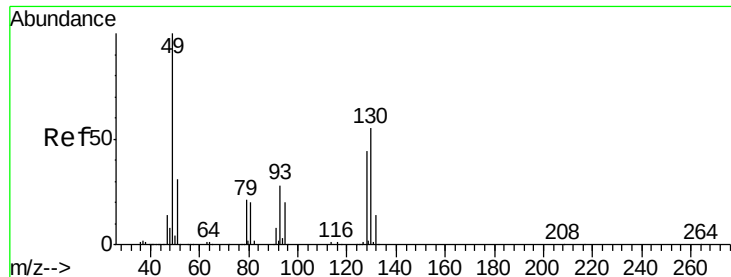
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 30 14:58:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL034534.D

Acq: 31 Dec 2019 5:44

Instrument :

MSVOA_L

ClientSampleId :

29-1DL

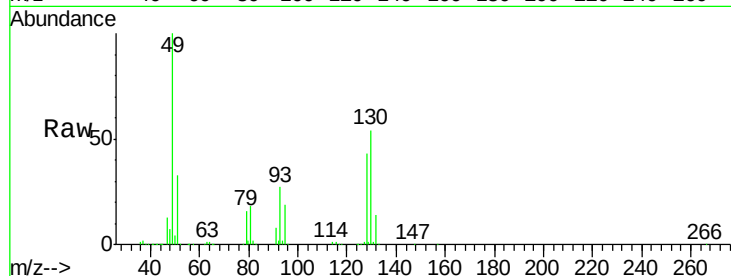
Tgt Ion: 49 Resp: 1039302

Ion Ratio Lower Upper

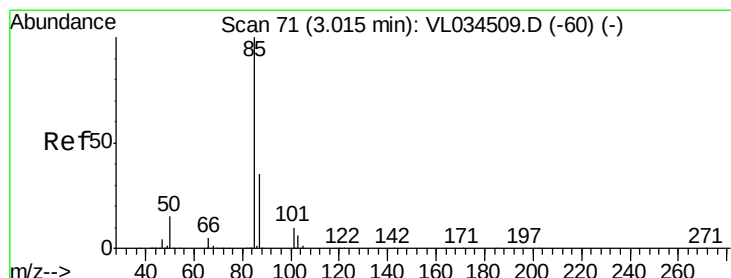
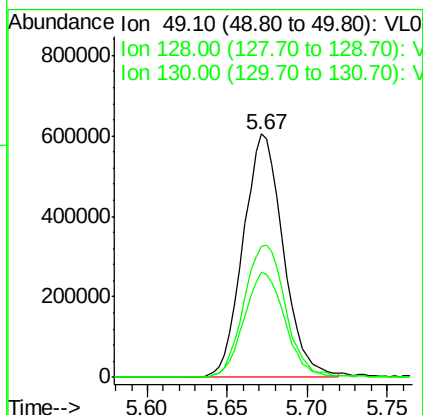
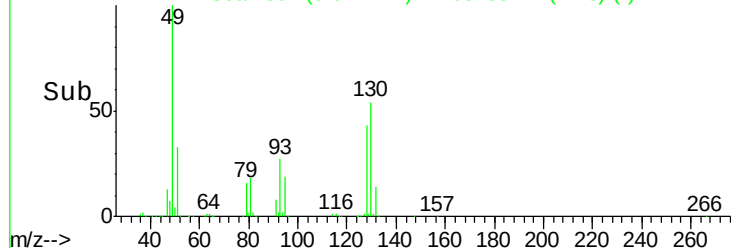
49 100

128 44.5 22.4 67.2

130 57.2 28.3 85.0



Scan 897 (5.671 min): VL034534.D (-743) (-)



#2

Dichlorodifluoromethane

Concen: 0.033 ppbv

RT: 3.02 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL034534.D

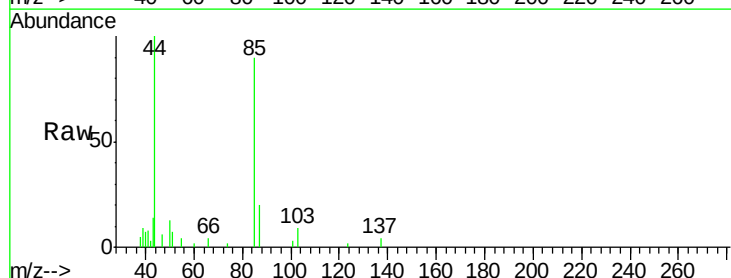
Acq: 31 Dec 2019 5:44

Tgt Ion: 85 Resp: 5443

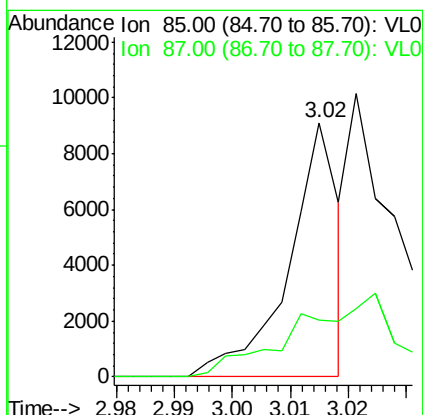
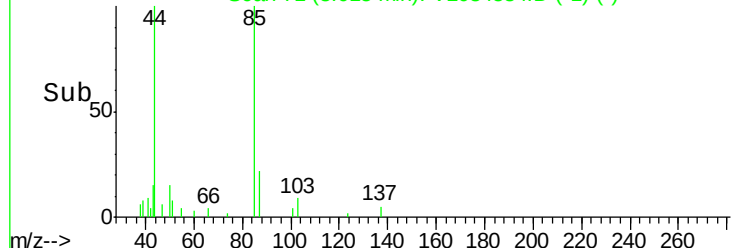
Ion Ratio Lower Upper

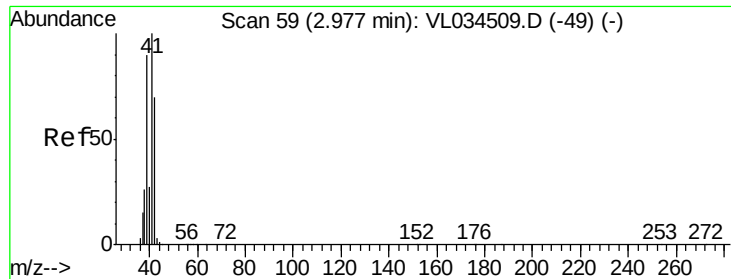
85 100

87 22.4 27.9 41.9#



Scan 71 (3.015 min): VL034534.D (-1) (-)





#9

Propene

Concen: 0.565 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.20 min

Lab File: VL034534.D

Acq: 31 Dec 2019 5:44

Instrument :

MSVOA_L

ClientSampleId :

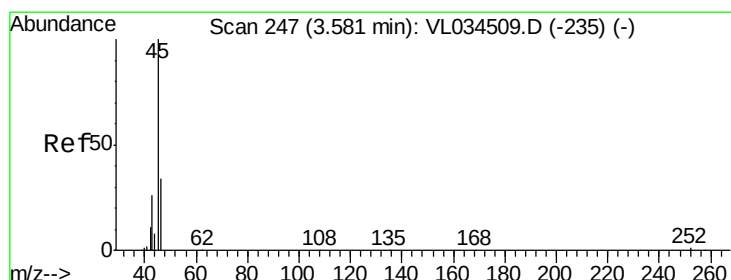
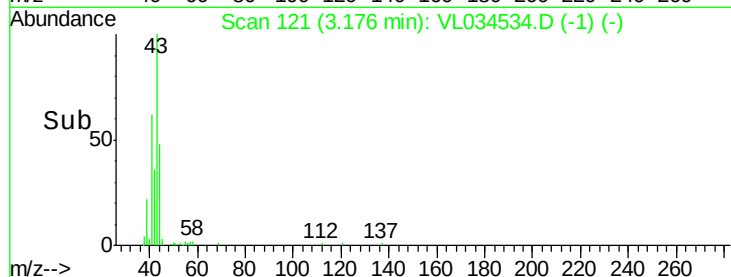
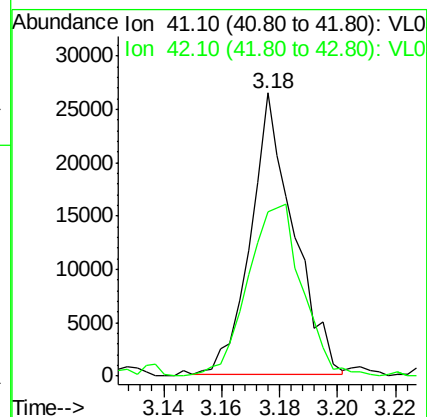
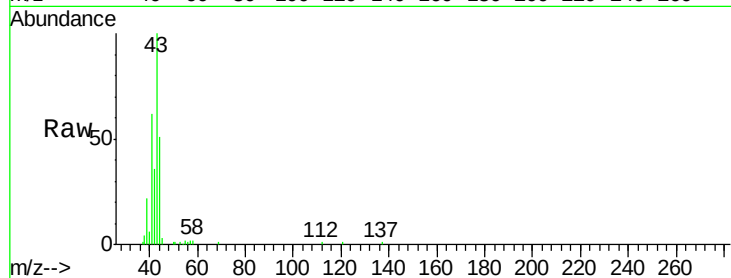
29-1DL

Tgt Ion: 41 Resp: 26960

Ion Ratio Lower Upper

41 100

42 78.4 55.8 83.6



#13

Ethanol

Concen: 29.757 ppbv

RT: 3.58 min Scan# 247

Delta R.T. -0.00 min

Lab File: VL034534.D

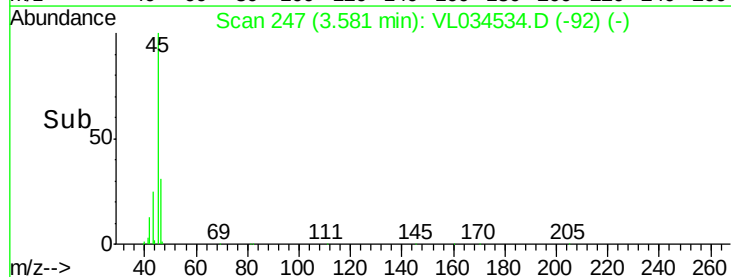
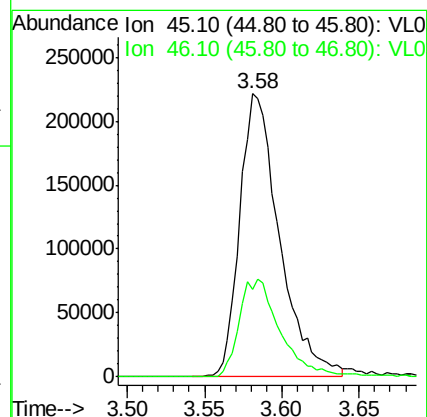
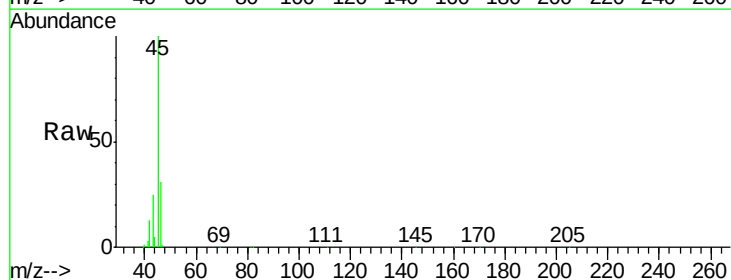
Acq: 31 Dec 2019 5:44

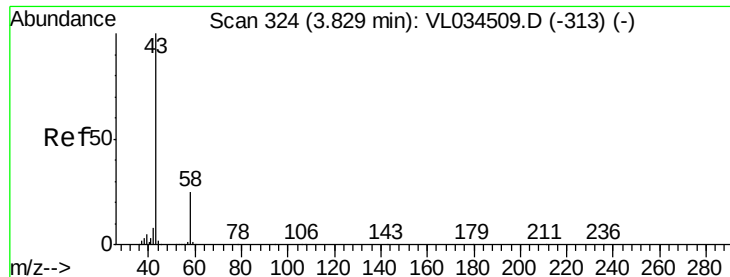
Tgt Ion: 45 Resp: 394181

Ion Ratio Lower Upper

45 100

46 36.3 14.9 59.7





#15

Acetone

Concen: 3.108 ppbv

RT: 3.83 min Scan# 326

Delta R.T. 0.01 min

Lab File: VL034534.D

Acq: 31 Dec 2019 5:44

Instrument :

MSVOA_L

ClientSampleId :

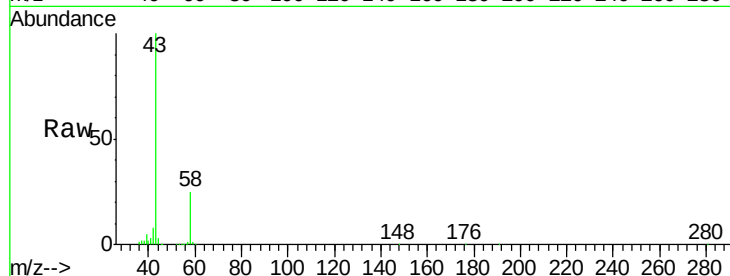
29-1DL

Tgt Ion: 43 Resp: 471396

Ion Ratio Lower Upper

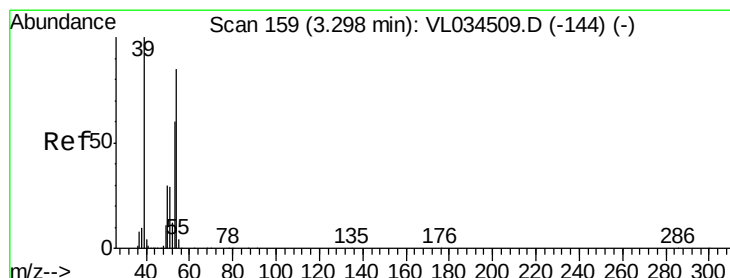
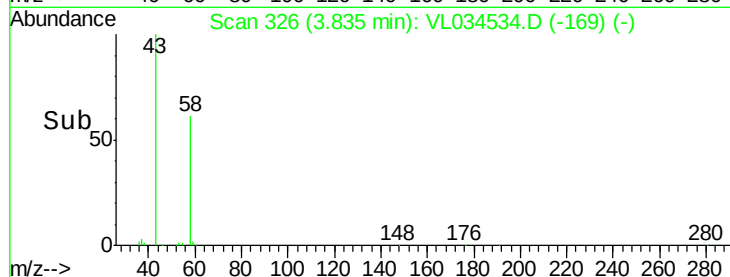
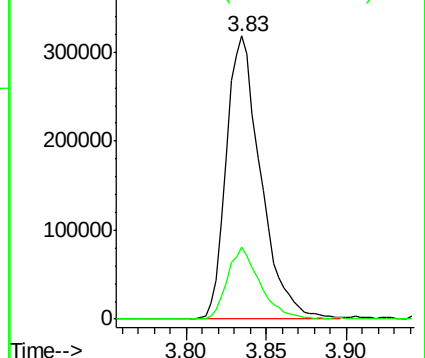
43 100

58 24.4 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.158 ppbv

RT: 3.28 min Scan# 152

Delta R.T. -0.02 min

Lab File: VL034534.D

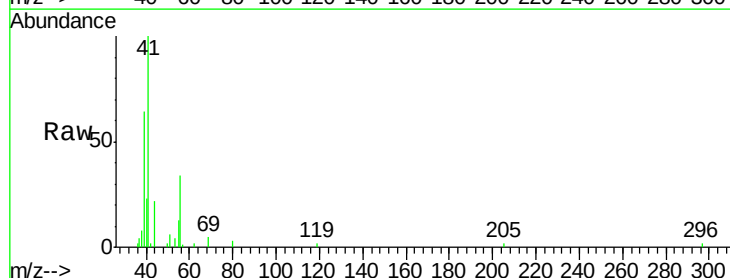
Acq: 31 Dec 2019 5:44

Tgt Ion: 39 Resp: 9209

Ion Ratio Lower Upper

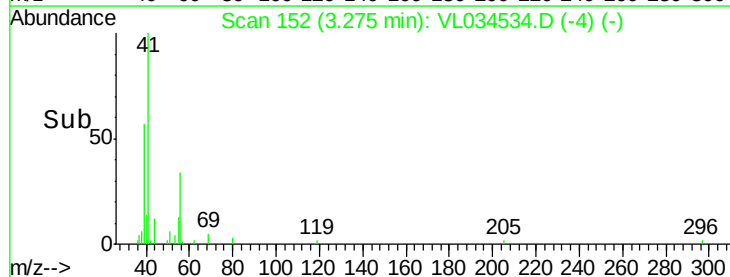
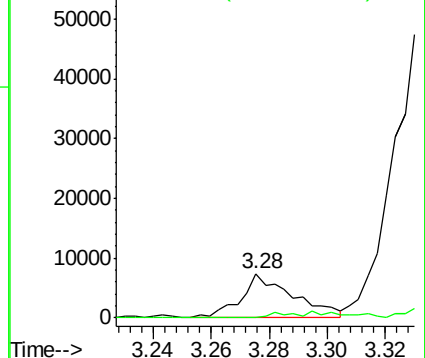
39 100

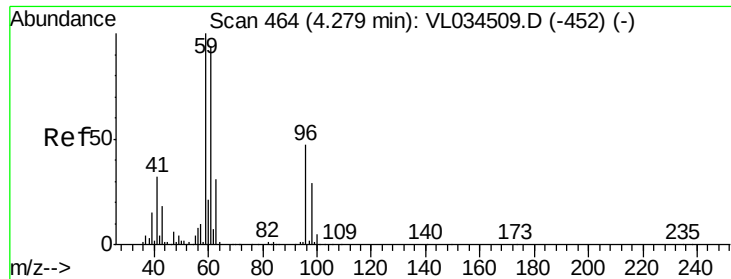
54 17.1 66.2 99.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



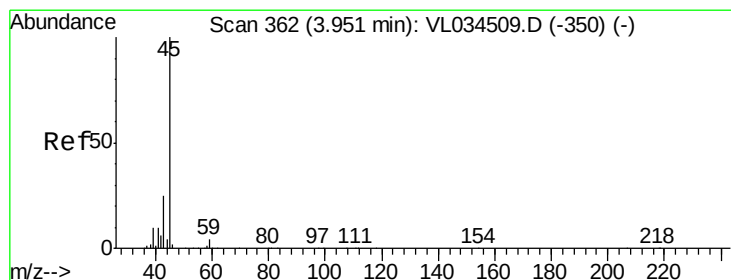
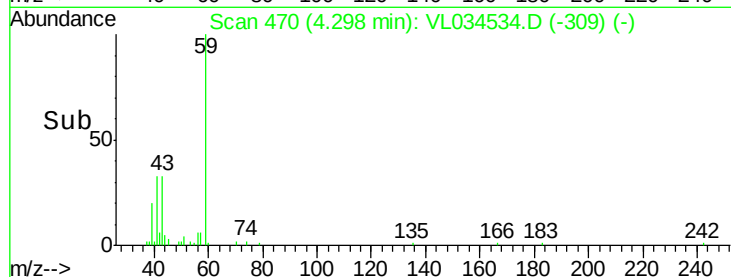
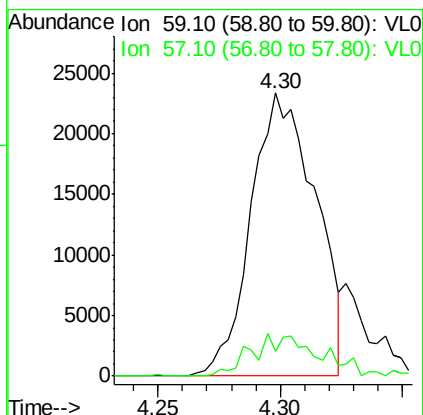
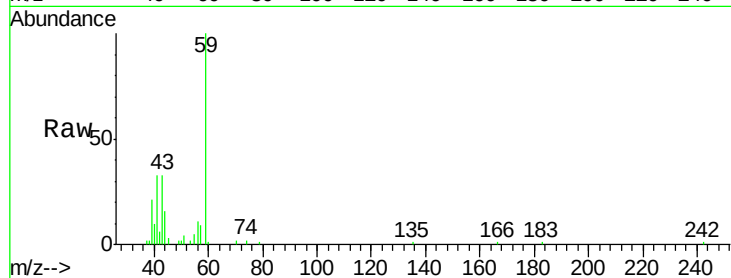


#17

tert-Butyl alcohol
Concen: 0.353 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.02 min
Lab File: VL034534.D
Acq: 31 Dec 2019 5:44

Instrument :
MSVOA_L
ClientSampled :
29-1DL

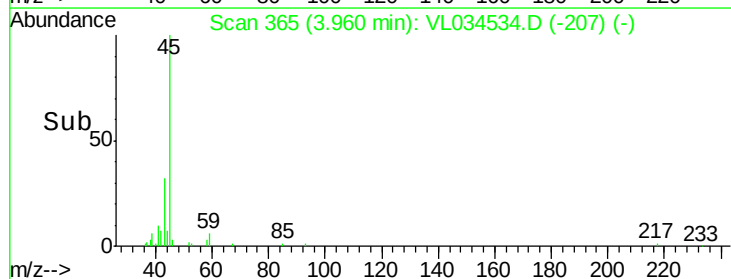
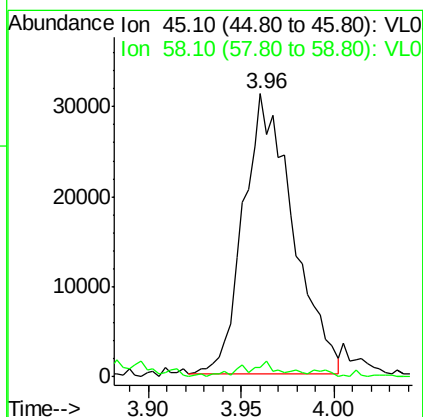
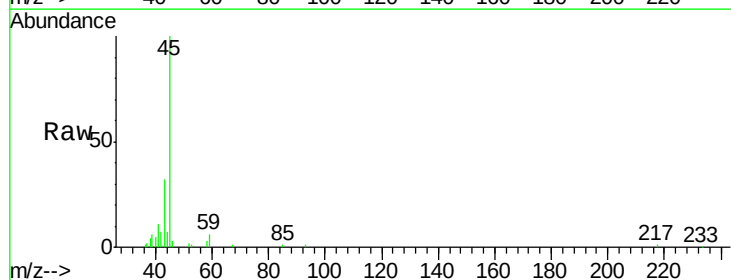
Tgt Ion: 59 Resp: 42819
Ion Ratio Lower Upper
59 100
57 16.1 8.6 12.8#

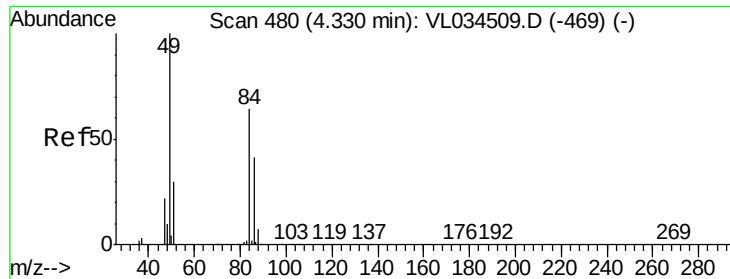


#19

Isopropyl Alcohol
Concen: 0.593 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.01 min
Lab File: VL034534.D
Acq: 31 Dec 2019 5:44

Tgt Ion: 45 Resp: 58194
Ion Ratio Lower Upper
45 100
58 197.3 1.4 2.0#

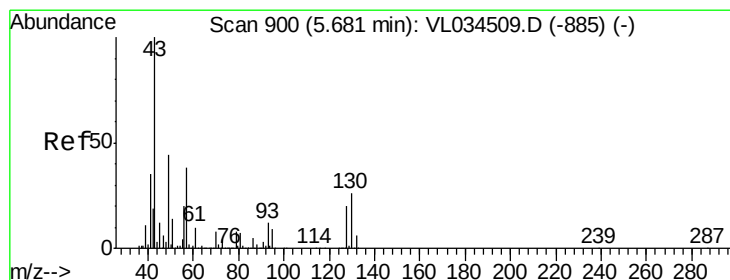
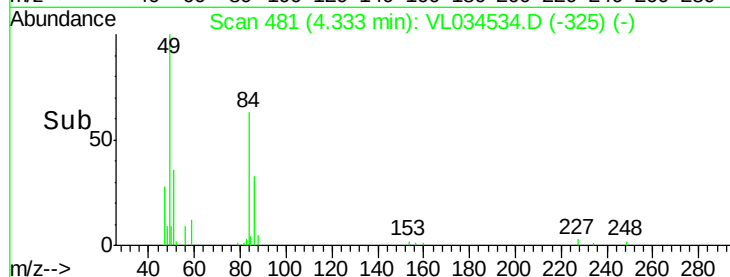
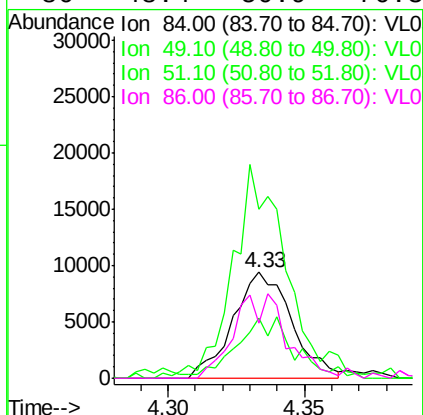
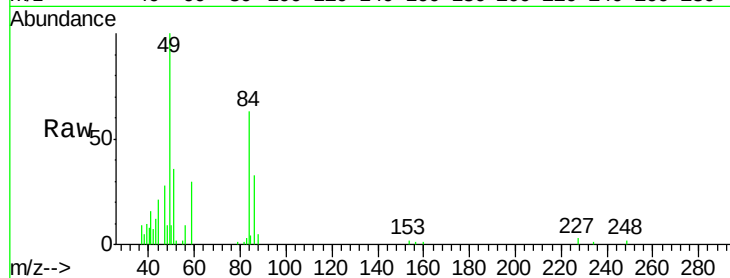




#20
Methylene Chloride
Concen: 0.235 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.00 min
Lab File: VL034534.D
Acq: 31 Dec 2019 5:44

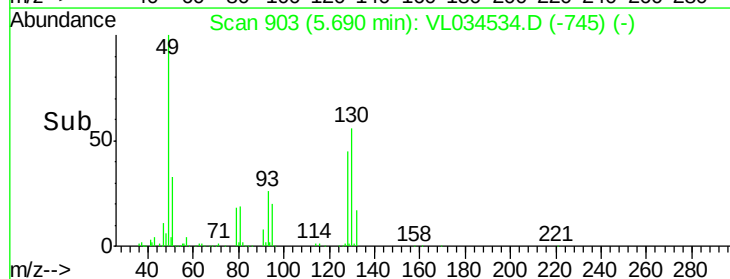
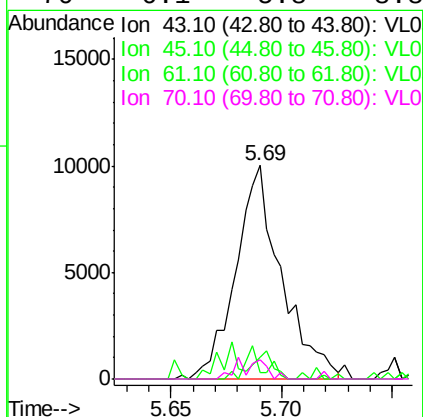
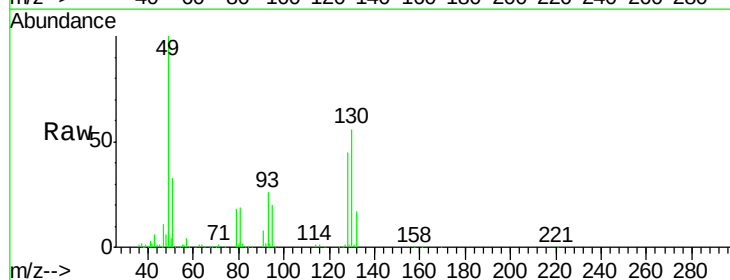
Instrument :
MSVOA_L
ClientSampleId :
29-1DL

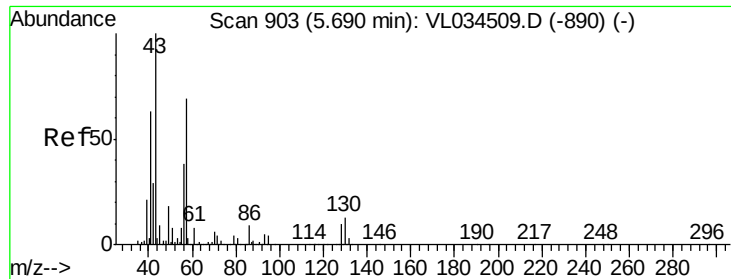
Tgt Ion:	84	Resp:	14021
Ion	Ratio	Lower	Upper
84	100		
49	137.1	124.4	186.6
51	49.3	37.0	55.6
86	48.4	50.9	76.3#



#25
Ethyl Acetate
Concen: 0.060 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL034534.D
Acq: 31 Dec 2019 5:44

Tgt Ion:	43	Resp:	14328
Ion	Ratio	Lower	Upper
43	100		
45	14.8	8.3	12.5#
61	5.9	7.8	11.6#
70	6.1	5.8	8.8





#26

Hexane

Concen: 0.068 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.00 min

Lab File: VL034534.D

Acq: 31 Dec 2019 5:44

Instrument :

MSVOA_L

ClientSampleId :

29-1DL

Tgt Ion: 57 Resp: 6738

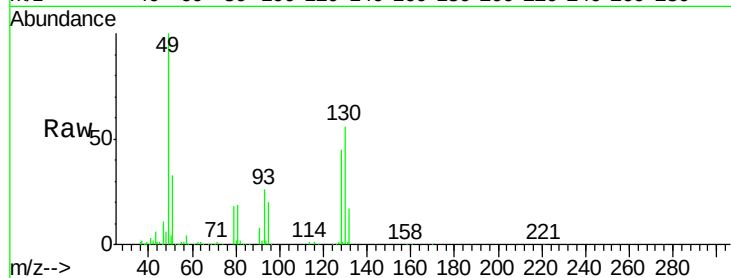
Ion Ratio Lower Upper

57 100

41 170.9 75.3 112.9#

43 215.0 189.4 284.2

56 0.0 42.8 64.2#

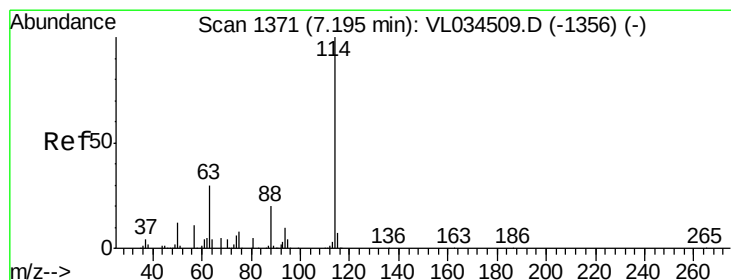
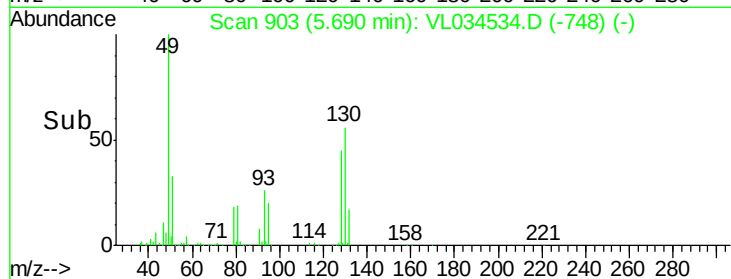
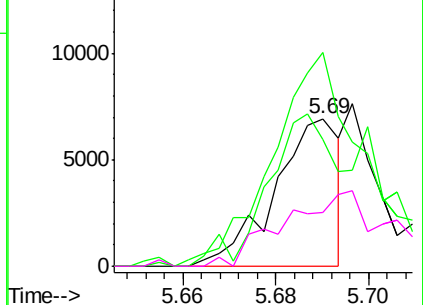


Abundance Ion 57.10 (56.80 to 57.80): VL0

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# 1371

Delta R.T. -0.00 min

Lab File: VL034534.D

Acq: 31 Dec 2019 5:44

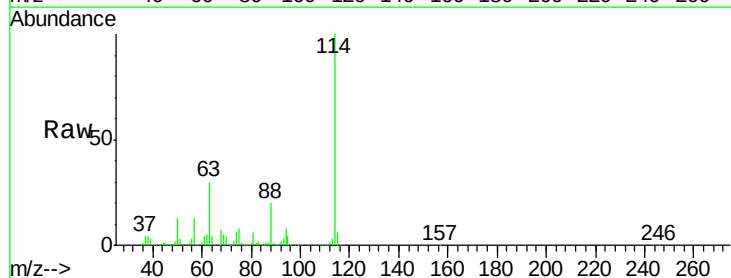
Tgt Ion: 114 Resp: 2097242

Ion Ratio Lower Upper

114 100

63 29.5 24.1 36.1

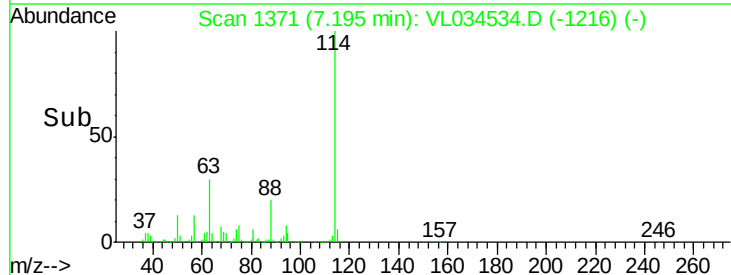
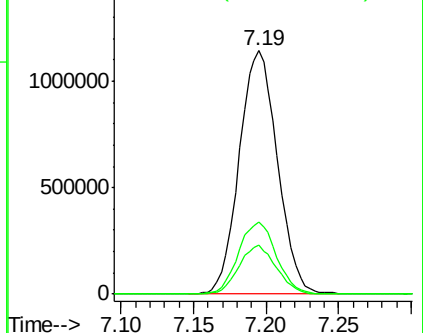
88 19.5 15.7 23.5

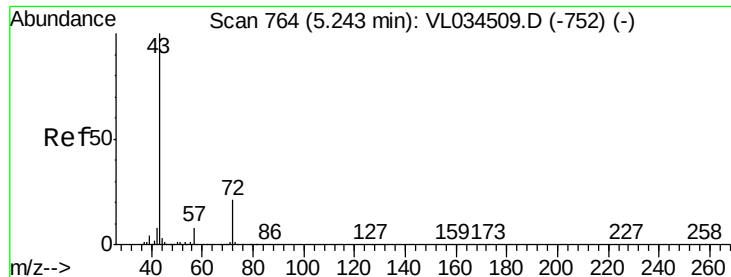


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

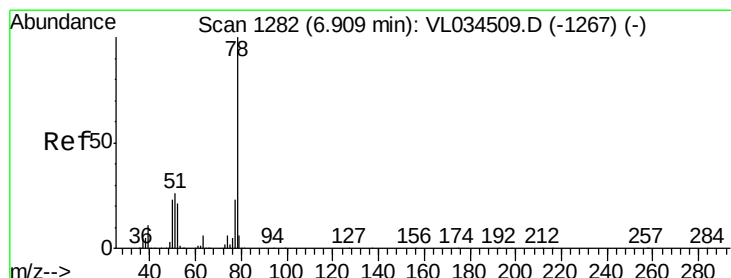
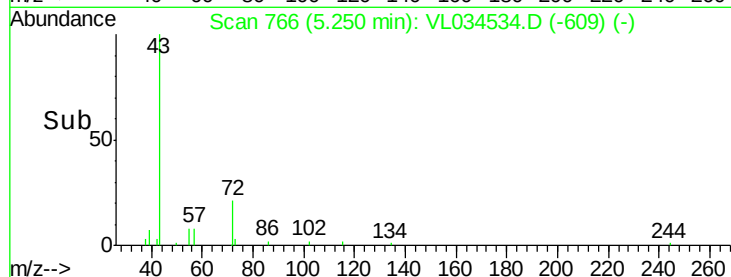
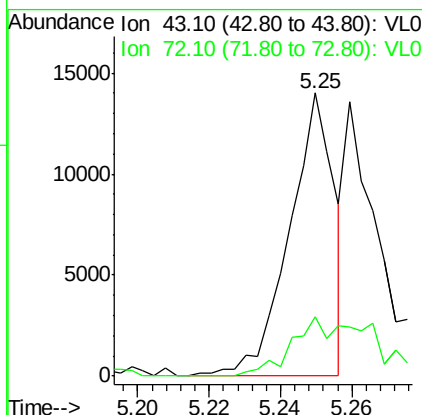
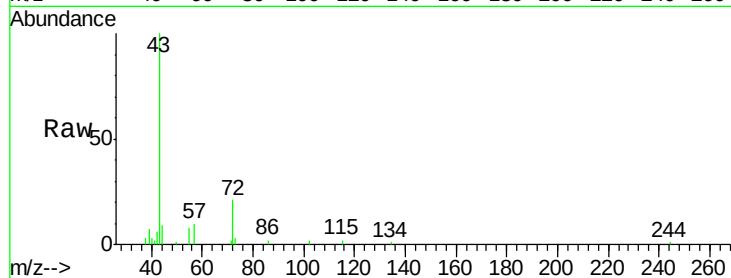




#34
2-Butanone
Concen: 0.081 ppbv
RT: 5.25 min Scan# 766
Delta R.T. 0.01 min
Lab File: VL034534.D
Acq: 31 Dec 2019 5:44

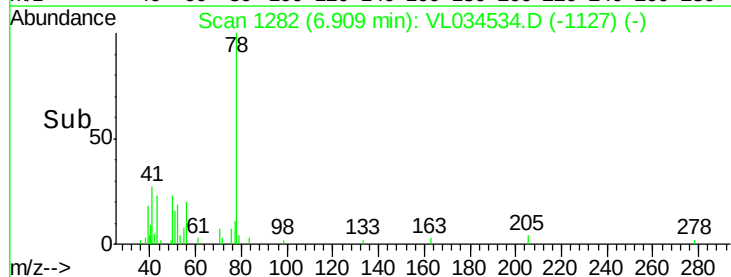
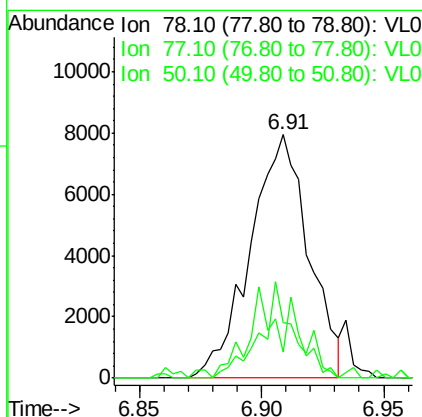
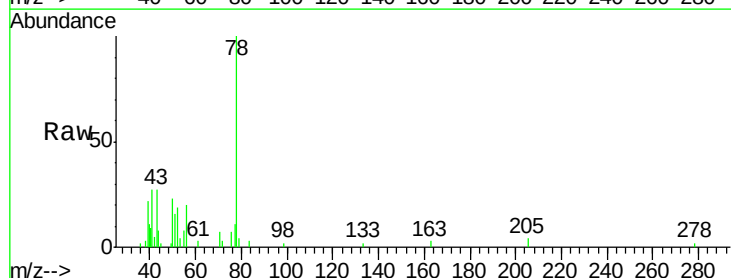
Instrument :
MSVOA_L
ClientSampleId :
29-1DL

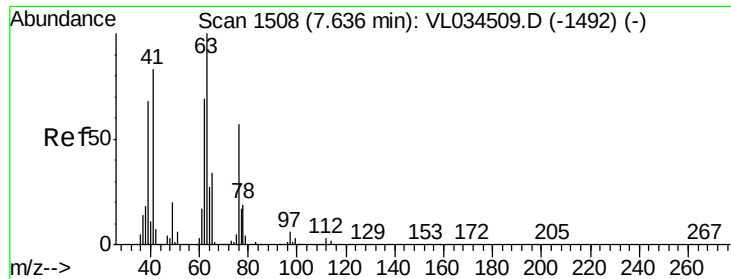
Tgt Ion: 43 Resp: 12170
Ion Ratio Lower Upper
43 100
72 37.9 17.0 25.4#



#36
Benzene
Concen: 0.072 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VL034534.D
Acq: 31 Dec 2019 5:44

Tgt Ion: 78 Resp: 13212
Ion Ratio Lower Upper
78 100
77 10.9 18.6 28.0#
50 22.7 18.8 28.2





#39

1,2-Dichloropropane

Concen: 8.190 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. -0.44 min

Lab File: VL034534.D

Acq: 31 Dec 2019 5:44

Instrument :

MSVOA_L

ClientSampleId :

29-1DL

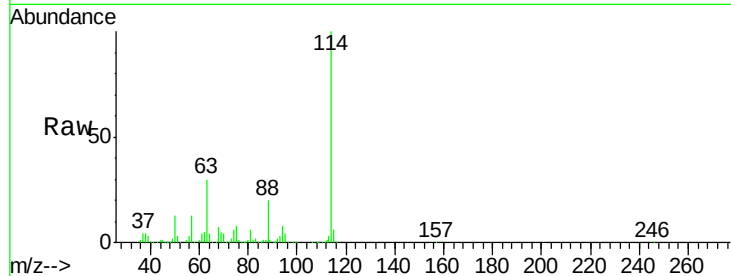
Tgt Ion: 63 Resp: 615653

Ion Ratio Lower Upper

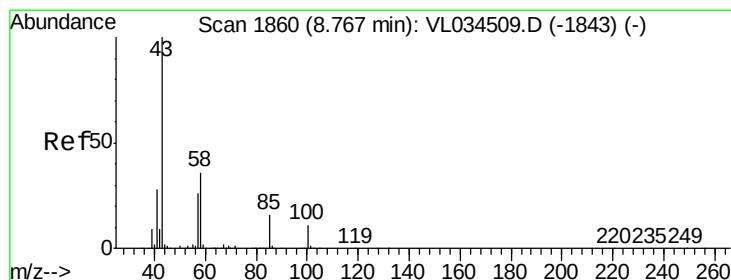
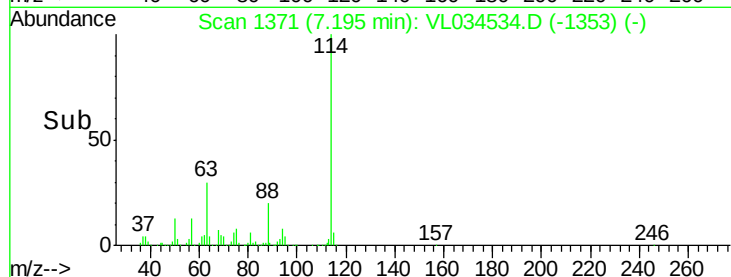
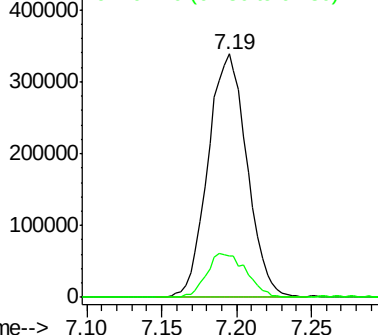
63 100

41 0.1 66.1 99.1#

62 17.0 54.9 82.3#



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



#50

4-Methyl-2-Pentanone

Concen: 0.025 ppbv

RT: 8.79 min Scan# 1866

Delta R.T. 0.02 min

Lab File: VL034534.D

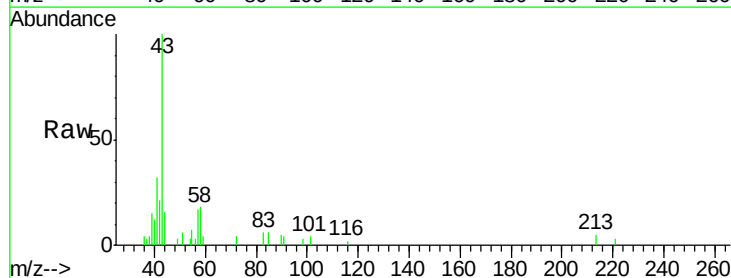
Acq: 31 Dec 2019 5:44

Tgt Ion: 43 Resp: 5401

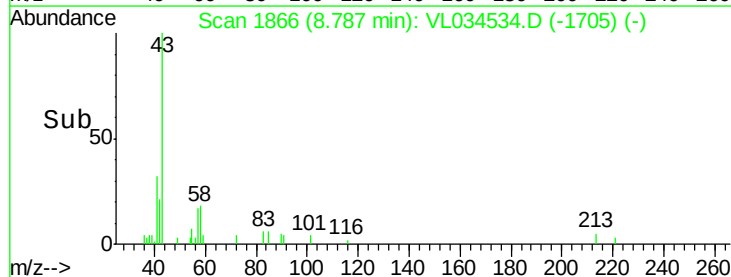
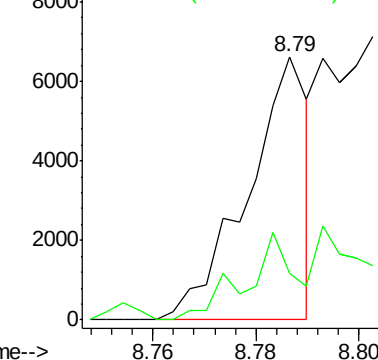
Ion Ratio Lower Upper

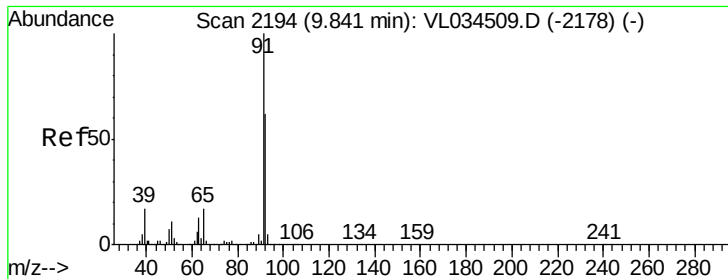
43 100

58 0.0 28.2 42.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#53

Toluene

Concen: 0.062 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VL034534.D

Acq: 31 Dec 2019 5:44

Instrument :

MSVOA_L

ClientSampleId :

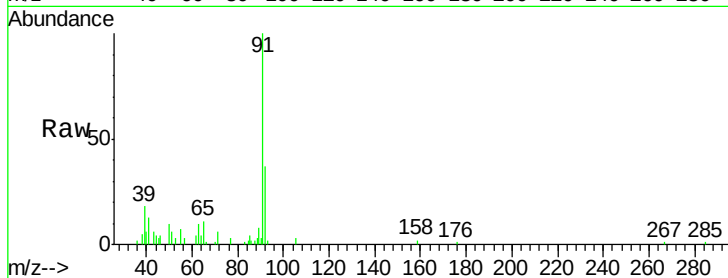
29-1DL

Tgt Ion: 91 Resp: 12387

Ion Ratio Lower Upper

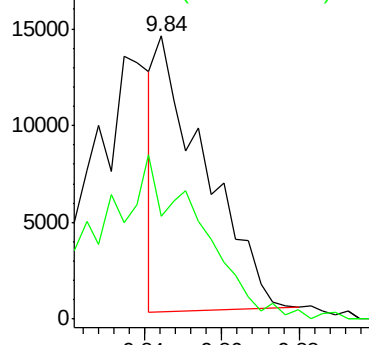
91 100

92 126.0 48.4 72.6#

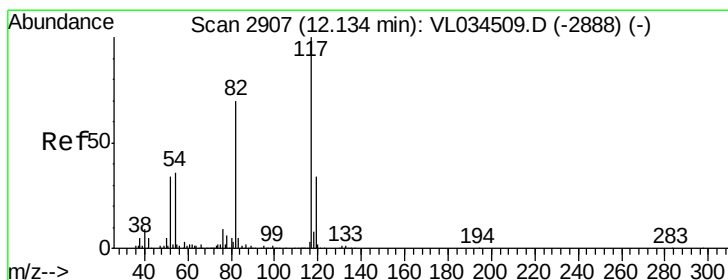
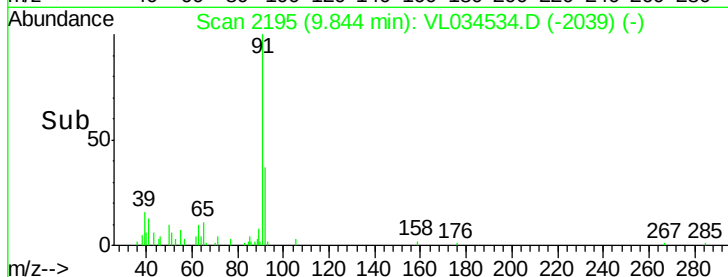


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VL034534.D

Acq: 31 Dec 2019 5:44

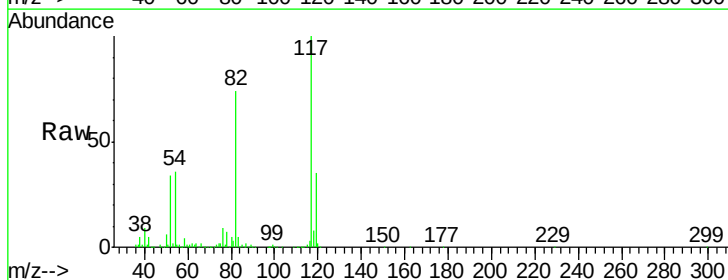
Tgt Ion: 117 Resp: 2025691

Ion Ratio Lower Upper

117 100

82 71.6 56.2 84.4

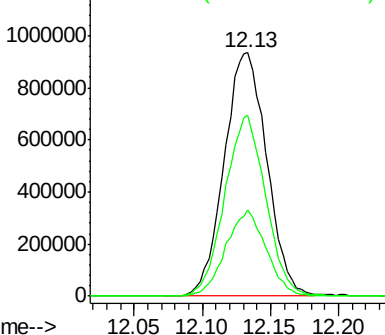
119 33.6 27.1 40.7



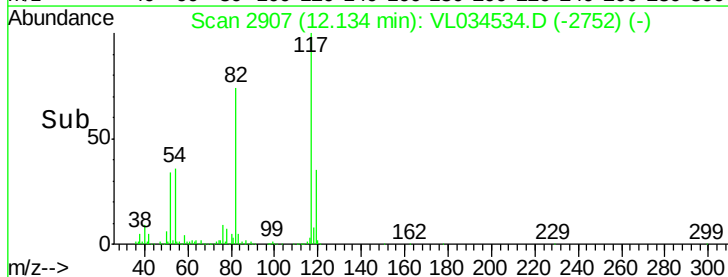
Abundance Ion 117.10 (116.80 to 117.80): V

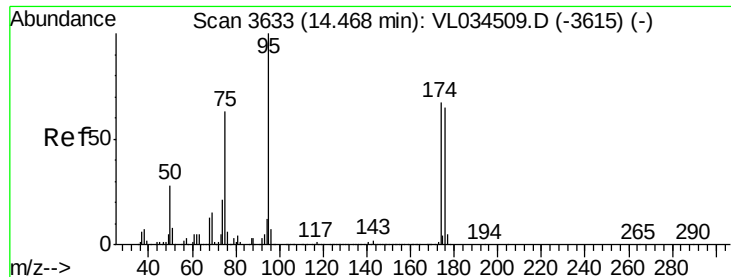
Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



Time-->

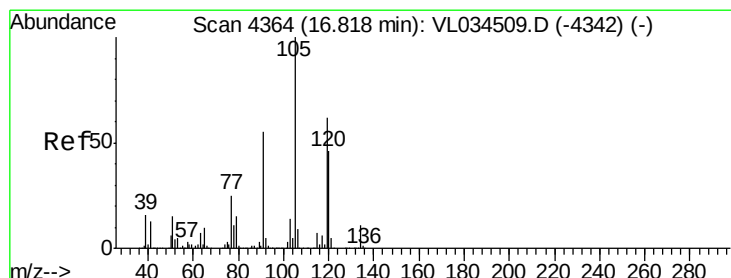
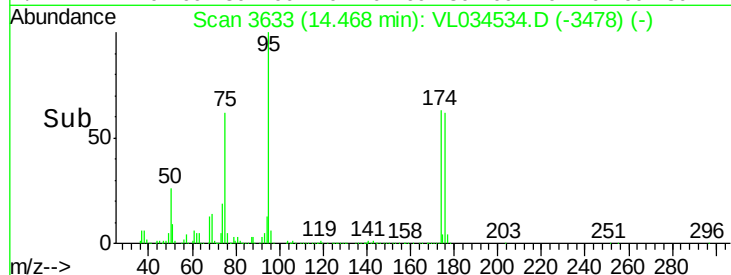
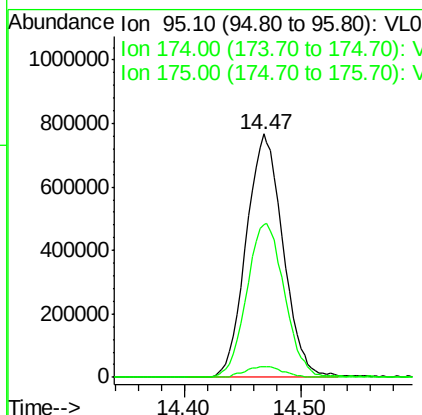
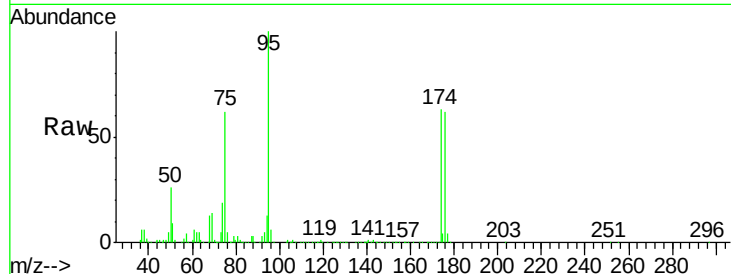




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.027 ppbv
 RT: 14.47 min Scan# 3633
 Delta R.T. -0.00 min
 Lab File: VL034534.D
 Acq: 31 Dec 2019 5:44

Instrument :
 MSVOA_L
 ClientSampleId :
 29-1DL

Tgt Ion: 95 Resp: 1694961
 Ion Ratio Lower Upper
 95 100
 174 65.2 52.4 78.6
 175 4.8 3.9 5.9



#74
 1,2,4-Trimethylbenzene
 Concen: 0.047 ppbv
 RT: 16.82 min Scan# 4364
 Delta R.T. -0.00 min
 Lab File: VL034534.D
 Acq: 31 Dec 2019 5:44

Tgt Ion: 105 Resp: 13229
 Ion Ratio Lower Upper
 105 100
 120 31.9 36.7 55.1#
 91 9.9 44.0 66.0#
 77 2.7 19.9 29.9#

