

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034895.D
 Acq On : 16 Mar 2020 18:05
 Operator : SY/AP
 Sample : L1924-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-01DL

Quant Time: Mar 17 04:27:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	877747	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1885902	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1870148	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1511226	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

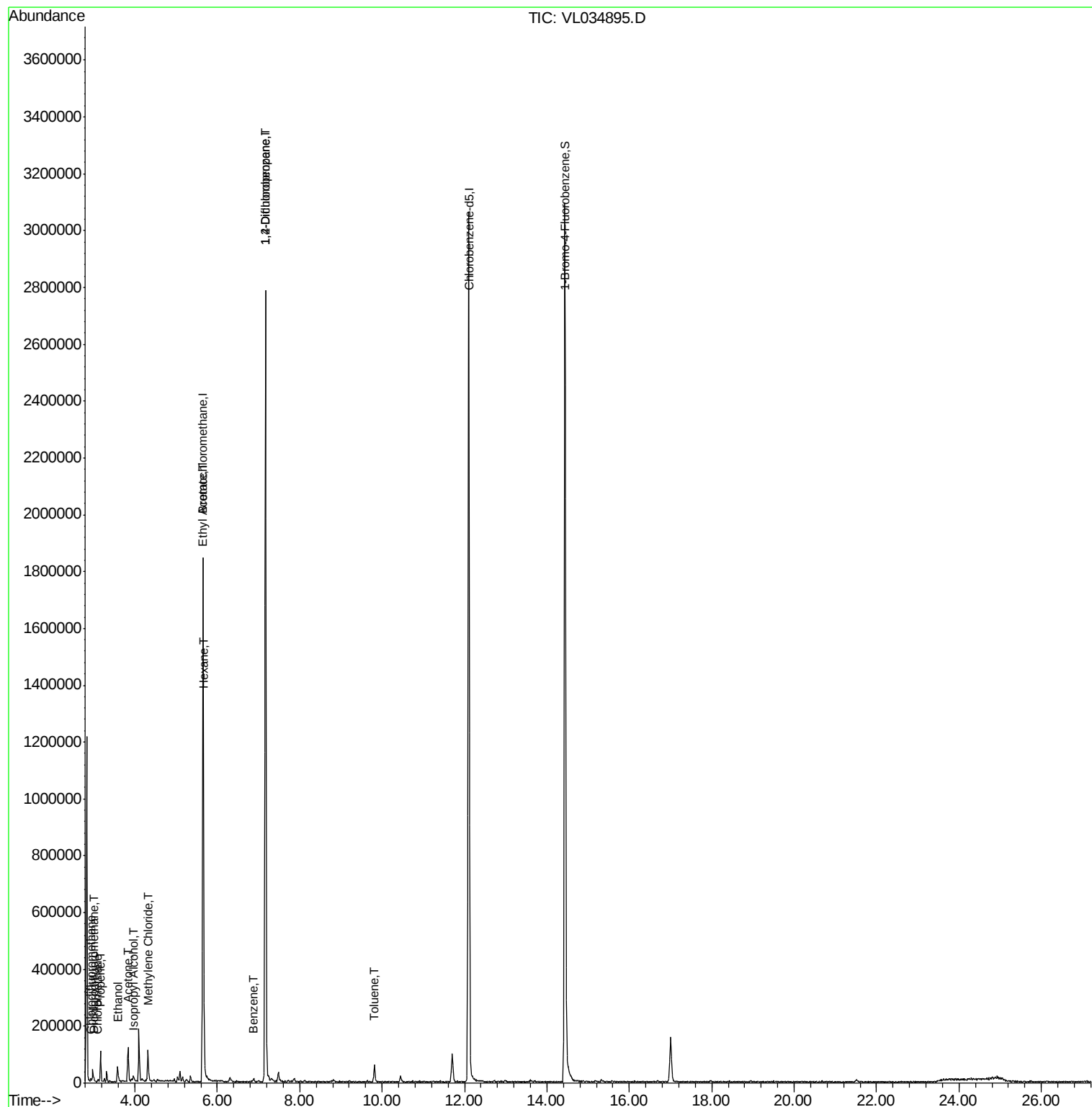
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	7045	0.059	ppbv	99
3) Chlorodifluoromethane	2.92	51	8388	0.086	ppbv #	90
4) Chloromethane	3.10	50	2767	0.050	ppbv #	85
9) Propene	3.17	41	28745	0.614	ppbv	96
13) Ethanol	3.58	45	52523	3.690	ppbv	96
15) Acetone	3.83	43	94315	0.829	ppbv	100
19) Isopropyl Alcohol	3.96	45	8051	0.112	ppbv #	37
20) Methylene Chloride	4.32	84	33473	0.931	ppbv	92
25) Ethyl Acetate	5.66	43	12678	0.063	ppbv #	88
26) Hexane	5.67	57	14942	0.171	ppbv #	53
36) Benzene	6.88	78	5575	0.033	ppbv #	68
39) 1,2-Dichloropropane	7.17	63	513901	7.716	ppbv #	23
53) Toluene	9.81	91	21639	0.111	ppbv #	19

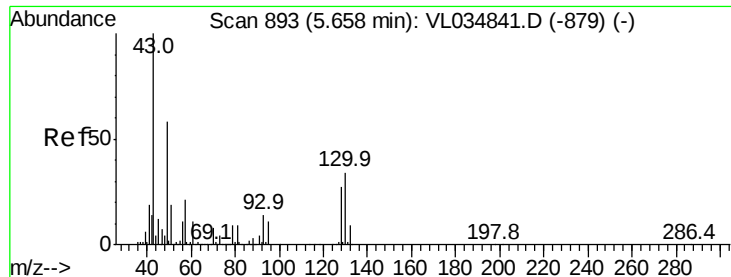
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034895.D

Acq: 16 Mar 2020 18:05

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MSVOA_L

ClientSampleId :

IA-01DL

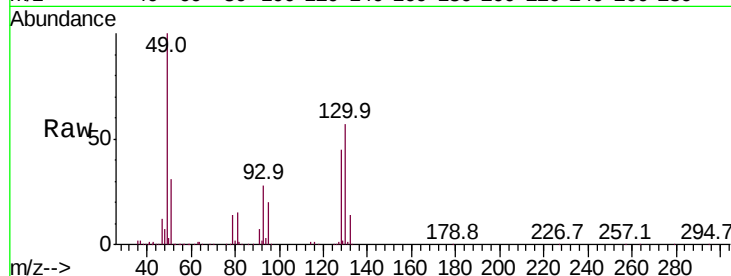
Tot Ion: 49 Resp: 877747

Ion Ratio Lower Upper

49 100

128 45.9 23.4 70.3

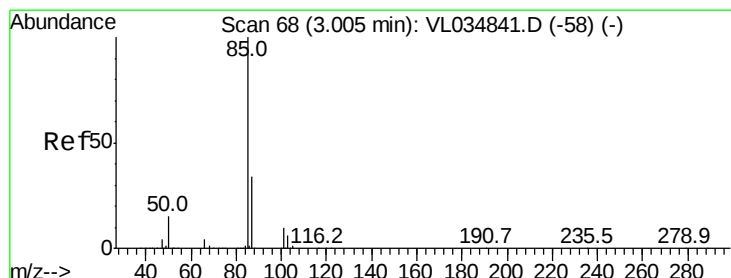
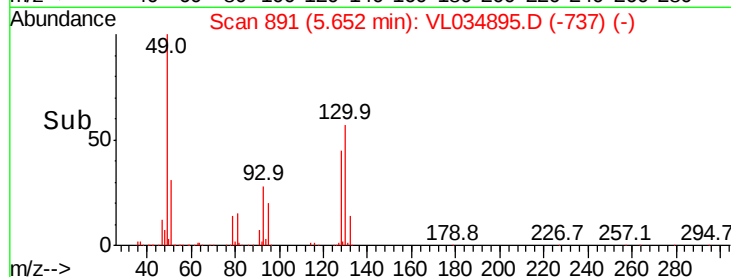
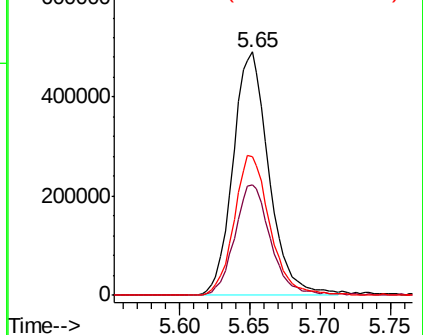
130 57.3 30.0 90.0



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: 0.059 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL034895.D

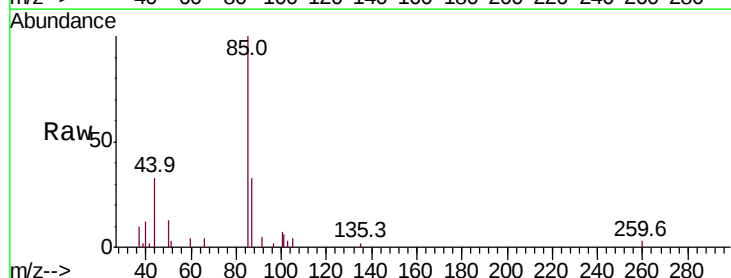
Acq: 16 Mar 2020 18:05

Tgt Ion: 85 Resp: 7045

Ion Ratio Lower Upper

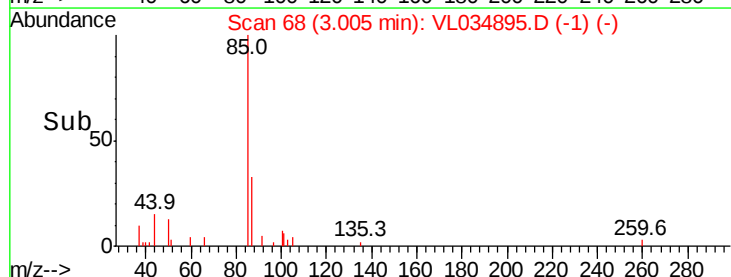
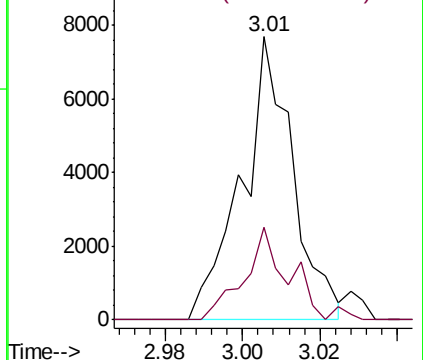
85 100

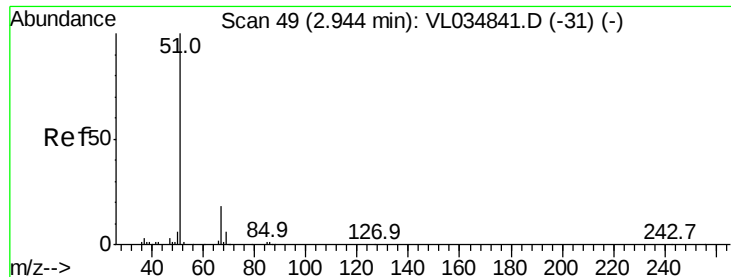
87 32.9 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

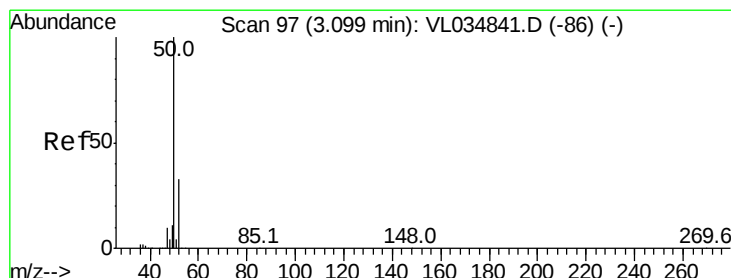
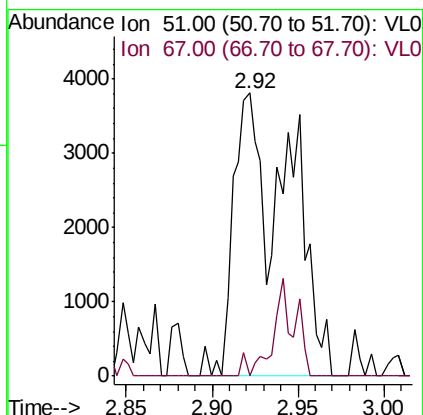
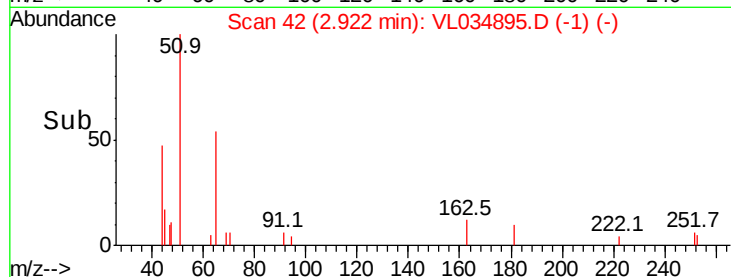
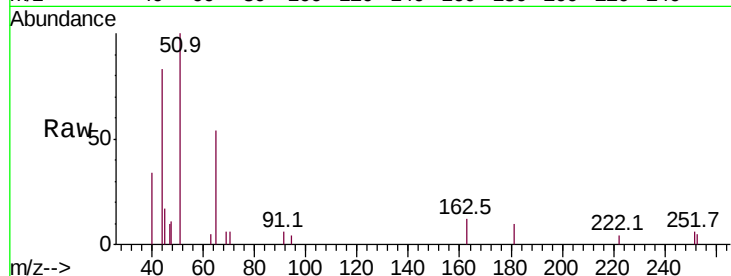




#3
Chlorodifluoromethane
Concen: 0.086 ppbv
RT: 2.92 min Scan# 42
Delta R.T. -0.02 min
Lab File: VL034895.D
Acq: 16 Mar 2020 18:05

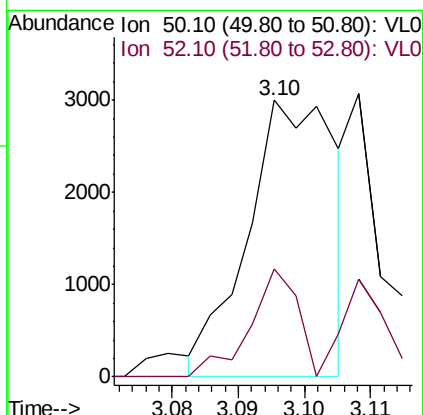
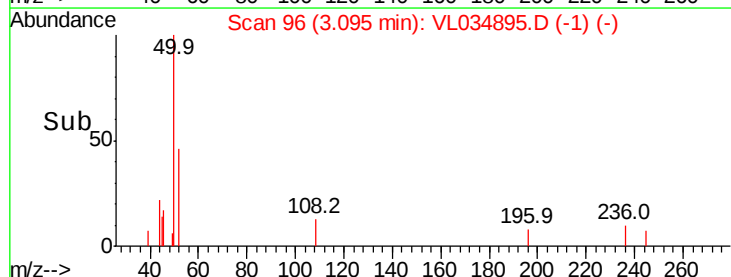
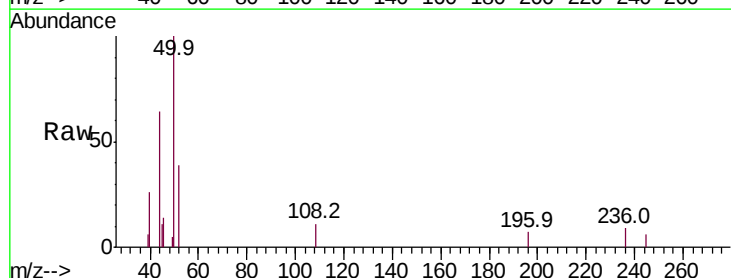
Instrument :
MSVOA_L
ClientSampleId :
IA-01DL

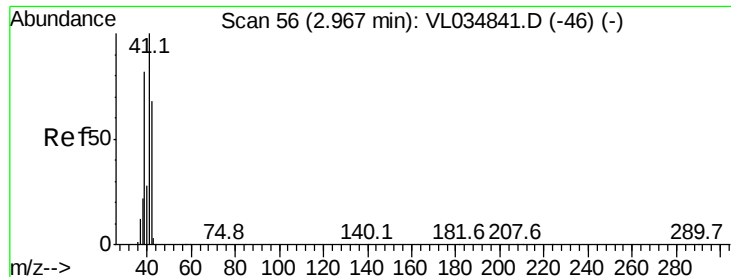
Tot Ion: 51 Resp: 8388
Ion Ratio Lower Upper
51 100
67 13.7 14.3 21.5#



#4
Chloromethane
Concen: 0.050 ppbv
RT: 3.10 min Scan# 96
Delta R.T. -0.00 min
Lab File: VL034895.D
Acq: 16 Mar 2020 18:05

Tgt Ion: 50 Resp: 2767
Ion Ratio Lower Upper
50 100
52 42.2 26.8 40.2#





#9

Propene

Concen: 0.614 ppbv

RT: 3.17 min Scan# 118

Delta R.T. 0.20 min

Lab File: VL034895.D

Acq: 16 Mar 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

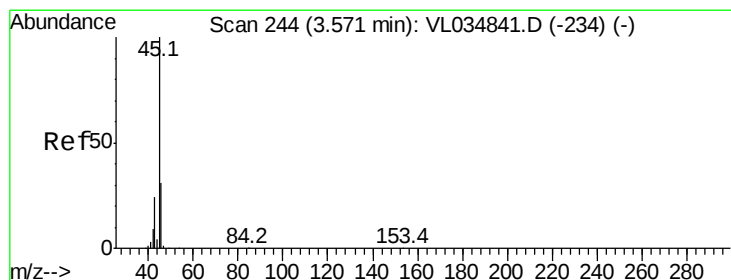
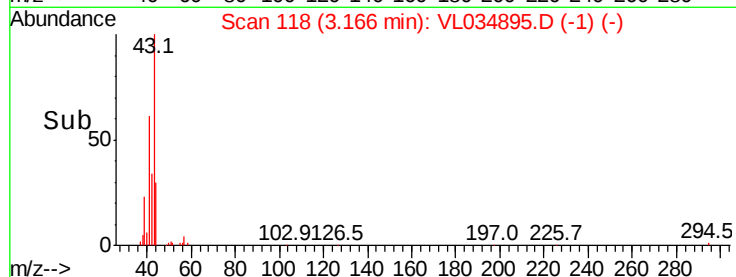
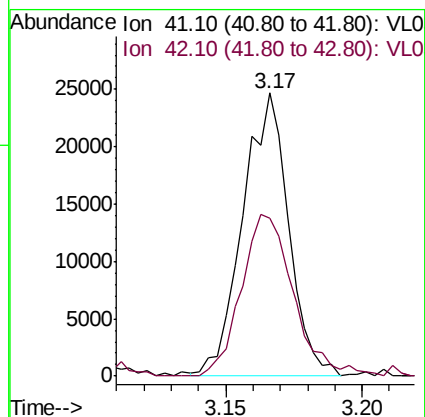
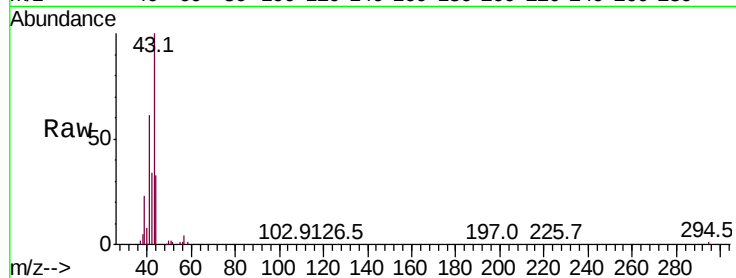
IA-01DL

Tot Ion: 41 Resp: 28745

Ion Ratio Lower Upper

41 100

42 65.9 55.2 82.8



#13

Ethanol

Concen: 3.690 ppbv

RT: 3.58 min Scan# 246

Delta R.T. 0.01 min

Lab File: VL034895.D

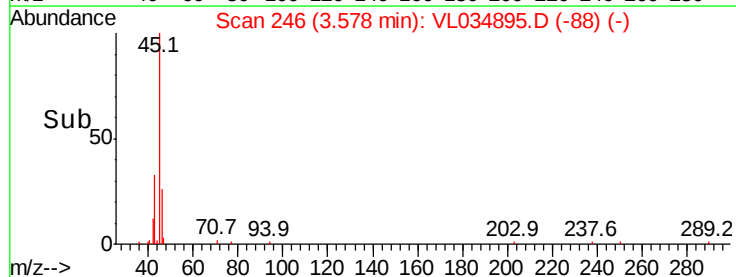
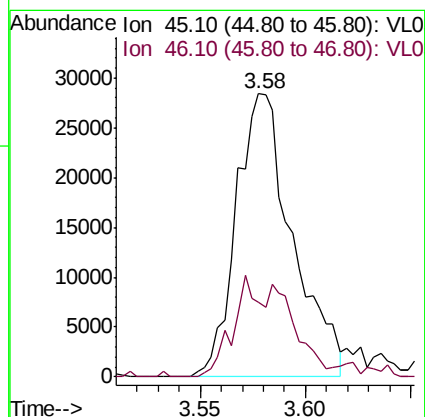
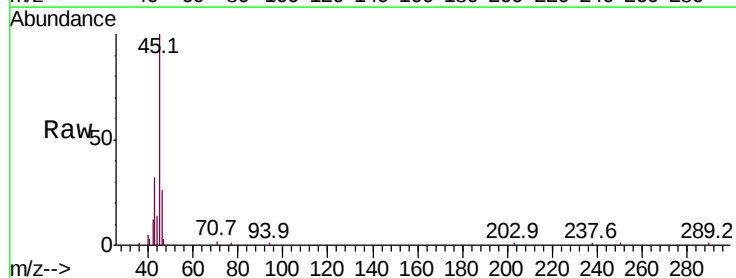
Acq: 16 Mar 2020 18:05

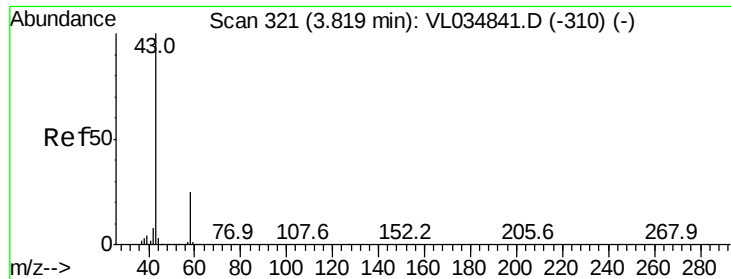
Tgt Ion: 45 Resp: 52523

Ion Ratio Lower Upper

45 100

46 37.6 16.0 64.0





#15

Acetone

Concen: 0.829 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL034895.D

Acq: 16 Mar 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

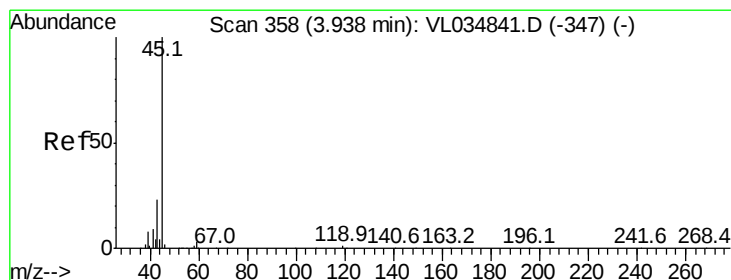
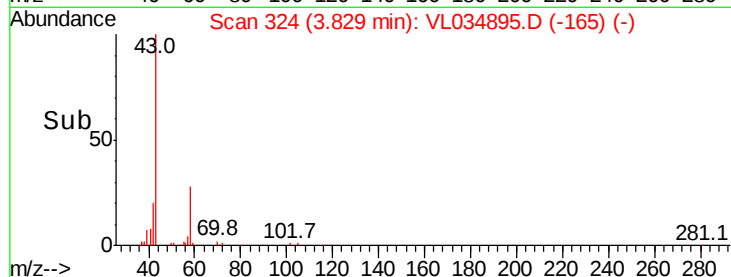
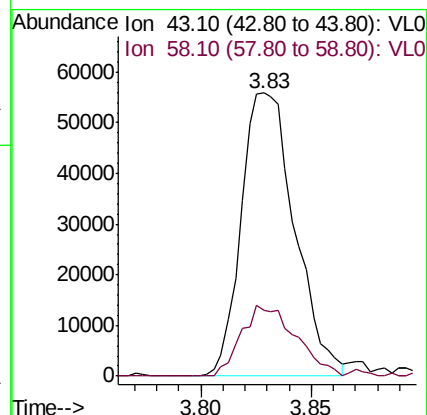
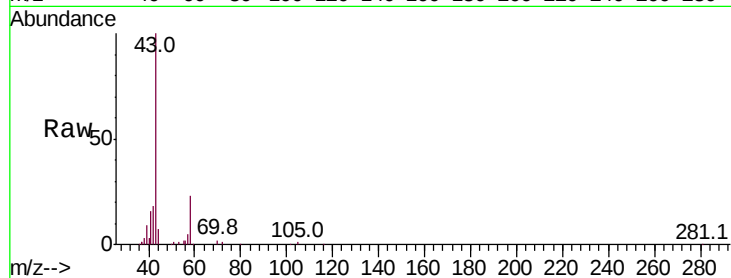
IA-01DL

Tot Ion: 43 Resp: 94315

Ion Ratio Lower Upper

43 100

58 26.1 21.0 31.6



#19

Isopropyl Alcohol

Concen: 0.112 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL034895.D

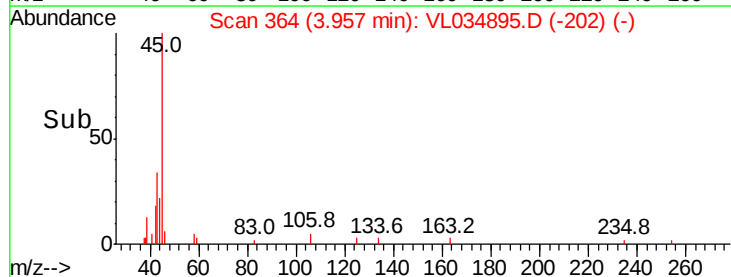
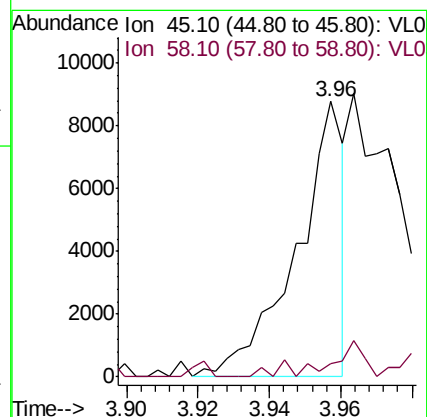
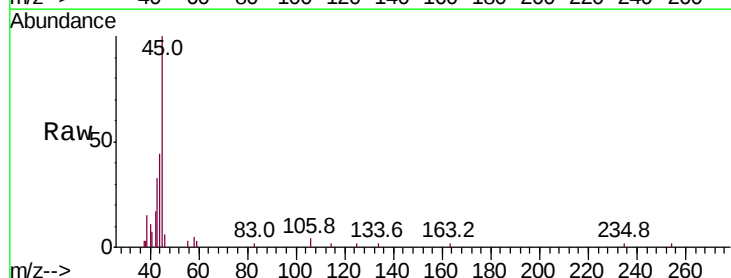
Acq: 16 Mar 2020 18:05

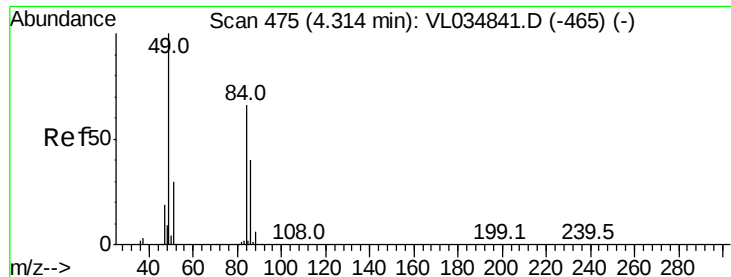
Tgt Ion: 45 Resp: 8051

Ion Ratio Lower Upper

45 100

58 0.0 30.5 45.7#

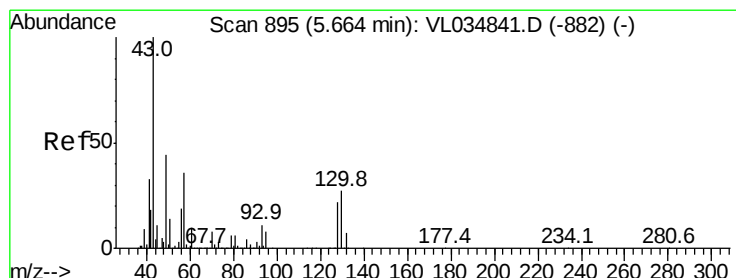
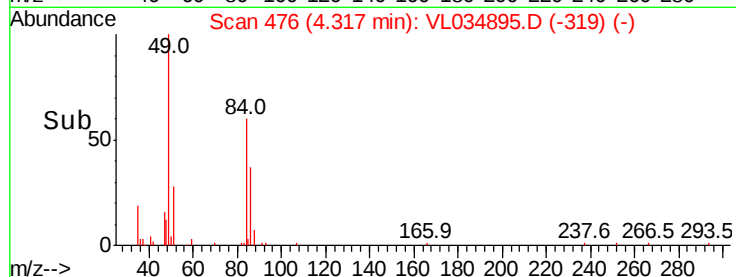
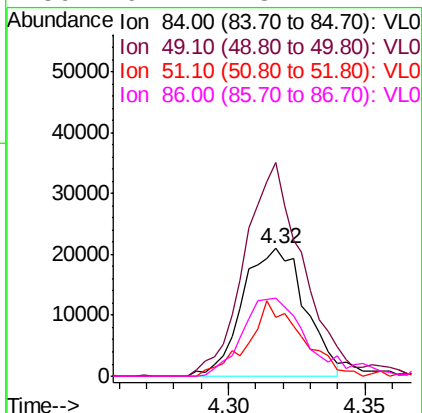
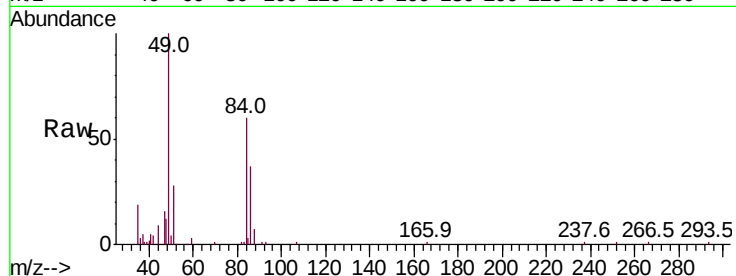




#20
Methvlene Chloride
Concen: 0.931 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL034895.D
Acq: 16 Mar 2020 18:05

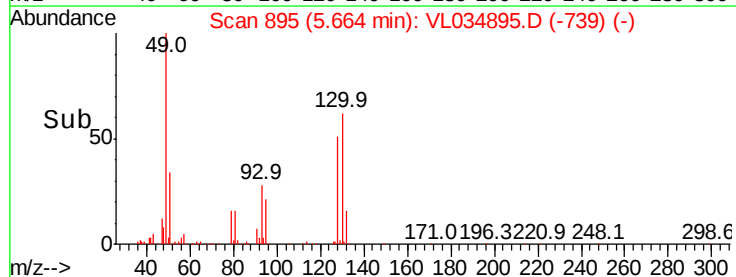
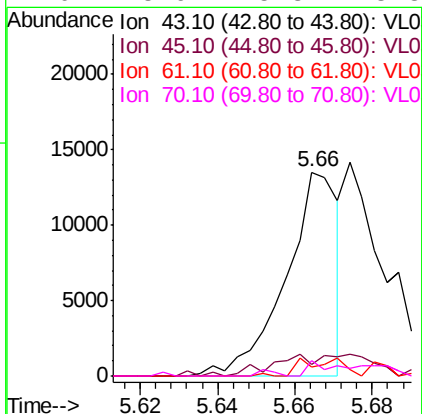
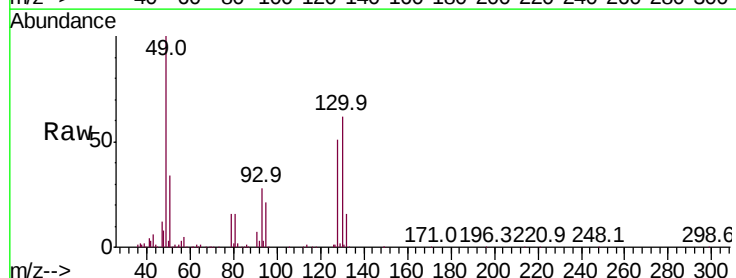
Instrument :
MSVOA_L
ClientSampleId :
IA-01DL

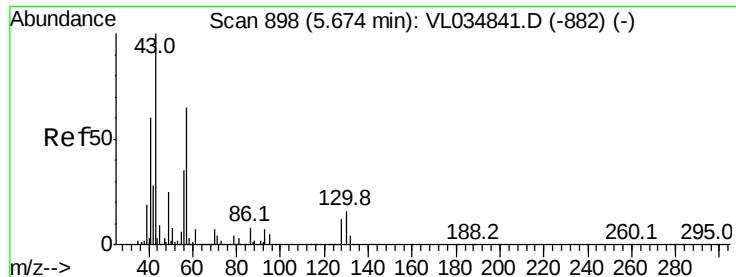
Tot Ion:	84	Resp:	33473
Ion	Ratio	Lower	Upper
84	100		
49	167.3	121.5	182.3
51	46.2	36.6	55.0
86	61.2	48.2	72.2



#25
Ethyl Acetate
Concen: 0.063 ppbv
RT: 5.66 min Scan# 895
Delta R.T. 0.00 min
Lab File: VL034895.D
Acq: 16 Mar 2020 18:05

Tgt Ion:	43	Resp:	12678
Ion	Ratio	Lower	Upper
43	100		
45	21.1	8.2	12.2#
61	9.7	7.8	11.6
70	8.9	5.8	8.8#





#26

Hexane

Concen: 0.171 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL034895.D

Acq: 16 Mar 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

IA-01DL

Tot Ion: 57 Resp: 14942

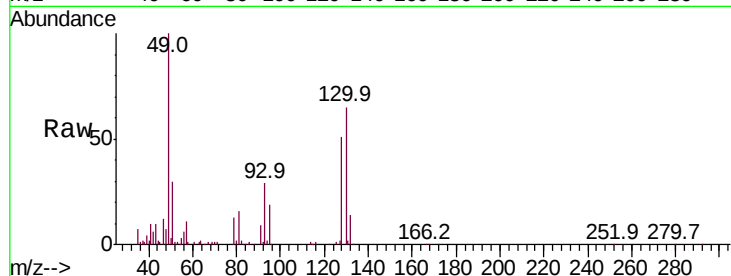
Ion Ratio Lower Upper

57 100

41 156.7 72.6 109.0#

43 166.0 183.8 275.6#

56 83.9 41.9 62.9#

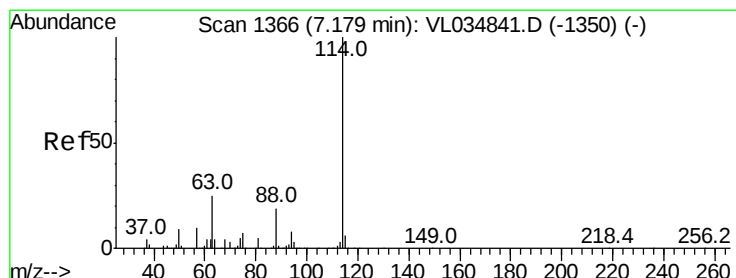
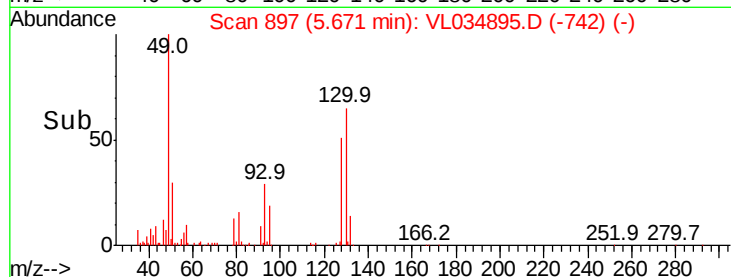
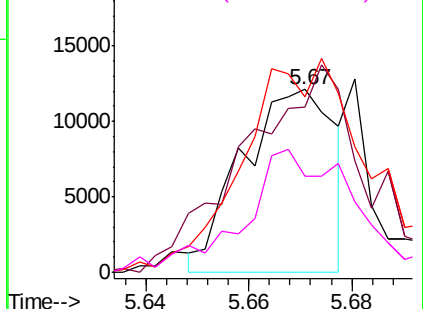


Abundance Ion 57.10 (56.80 to 57.80): VL0

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# 1363

Delta R.T. -0.01 min

Lab File: VL034895.D

Acq: 16 Mar 2020 18:05

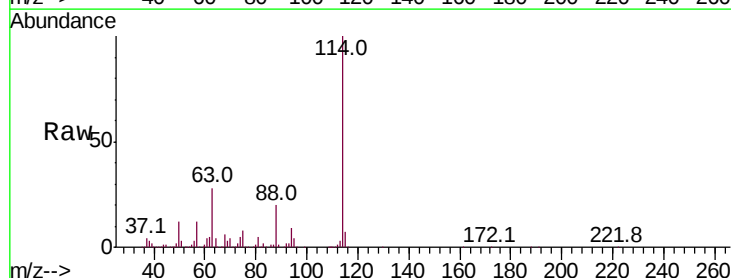
Tgt Ion:114 Resp: 1885902

Ion Ratio Lower Upper

114 100

63 27.4 20.6 31.0

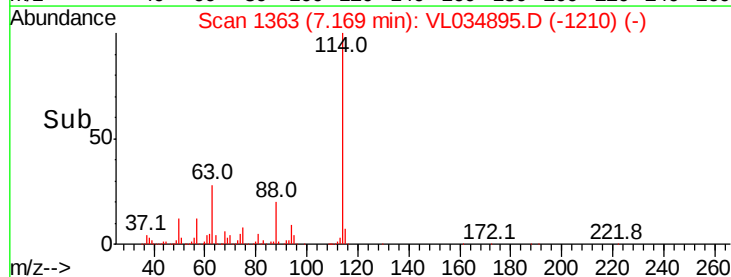
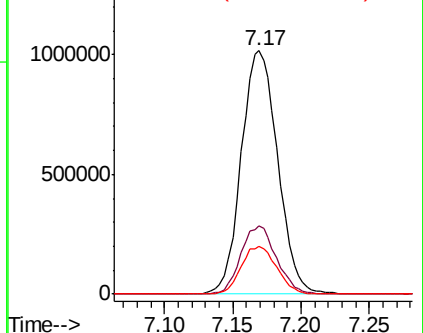
88 19.4 15.0 22.6

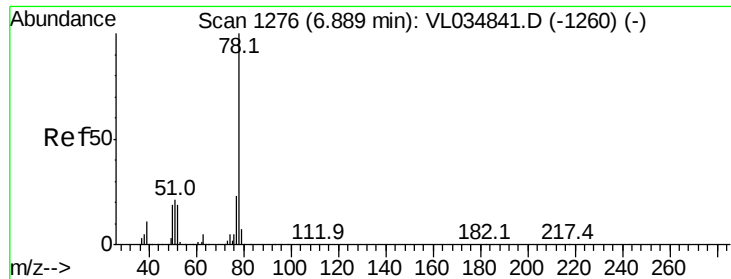


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#36

Benzene

Concen: 0.033 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VL034895.D

Acq: 16 Mar 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

IA-01DL

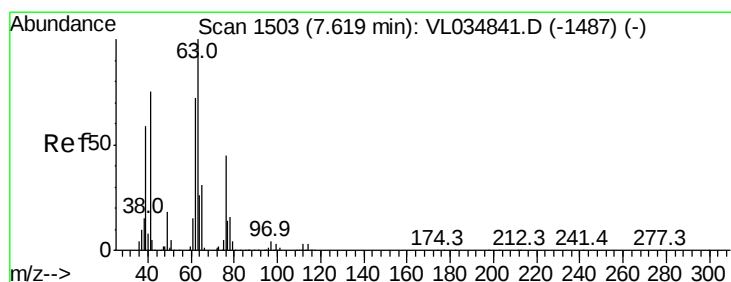
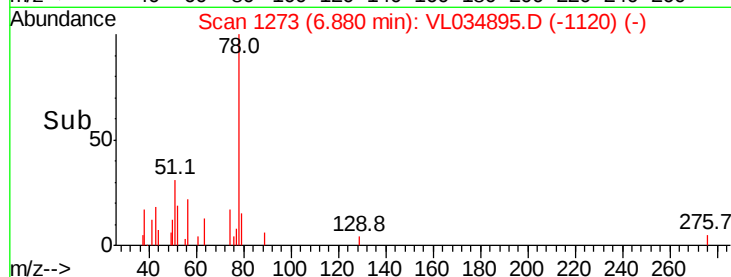
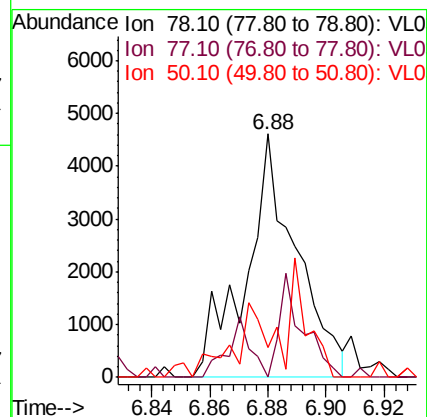
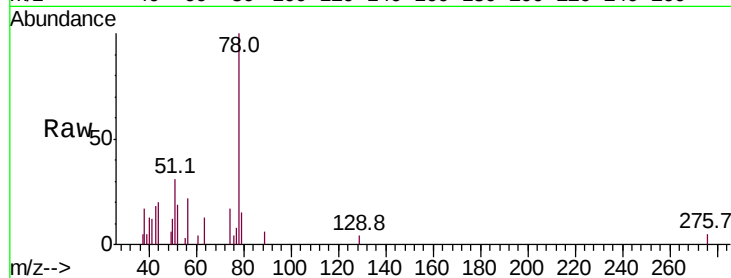
Tot Ion: 78 Resp: 5575

Ion Ratio Lower Upper

78 100

77 0.0 18.2 27.2#

50 12.3 15.2 22.8#



#39

1,2-Dichloropropane

Concen: 7.716 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.45 min

Lab File: VL034895.D

Acq: 16 Mar 2020 18:05

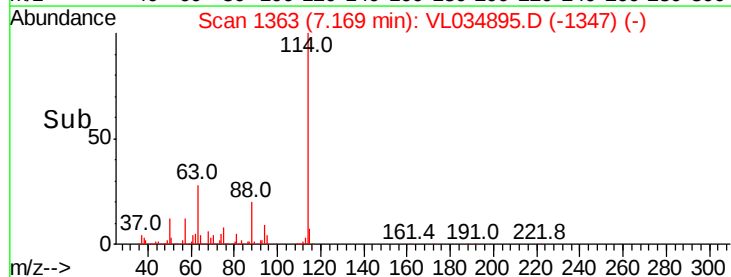
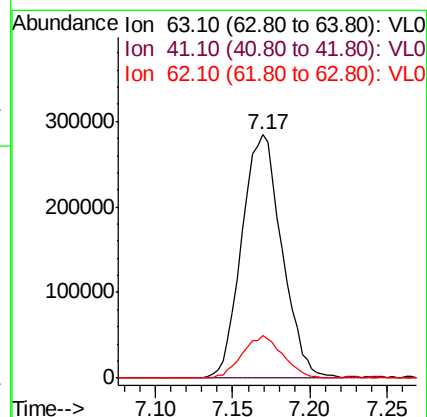
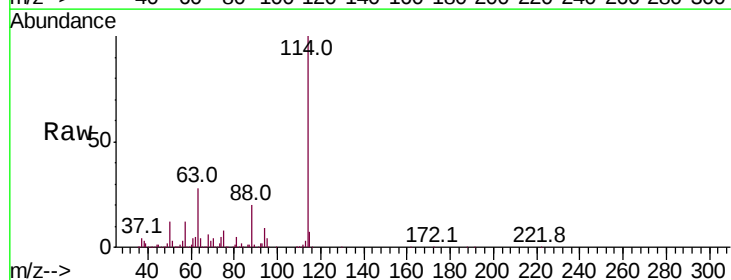
Tgt Ion: 63 Resp: 513901

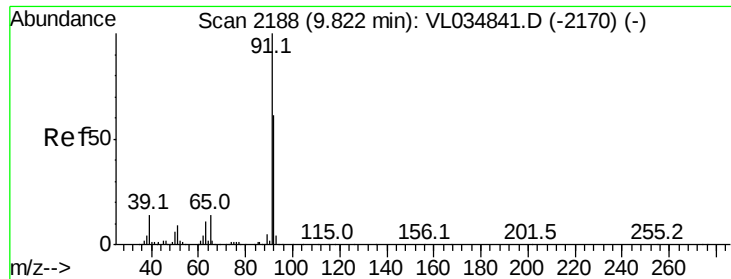
Ion Ratio Lower Upper

63 100

41 0.1 59.8 89.8#

62 17.6 57.6 86.4#





#53

Toluene

Concen: 0.111 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.01 min

Lab File: VL034895.D

Acq: 16 Mar 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

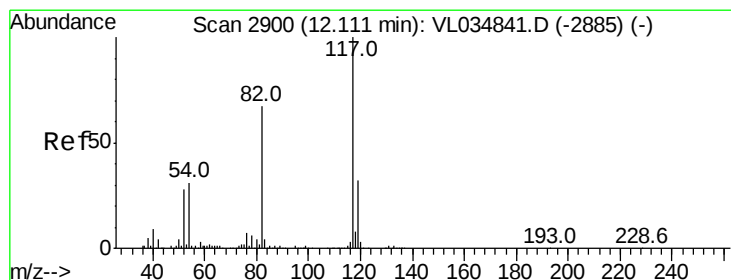
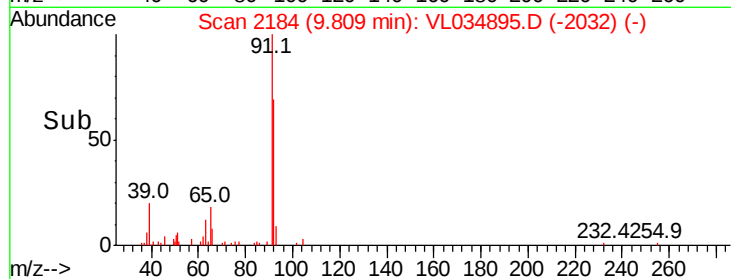
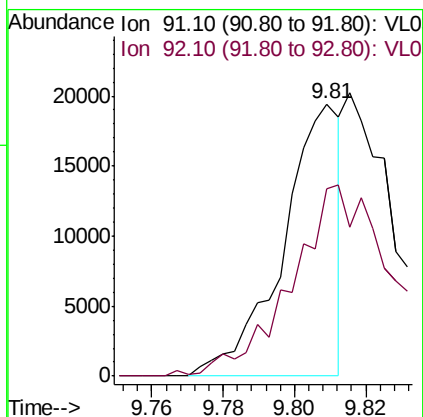
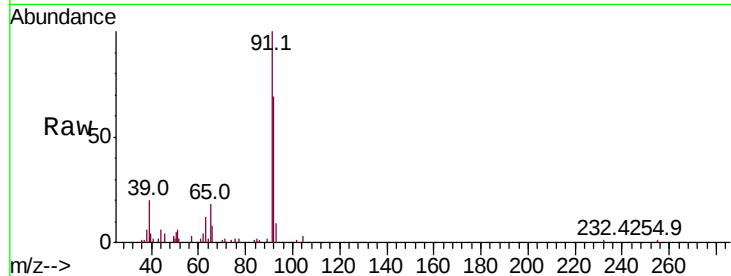
IA-01DL

Tot Ion: 91 Resp: 21639

Ion Ratio Lower Upper

91 100

92 122.0 48.6 72.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL034895.D

Acq: 16 Mar 2020 18:05

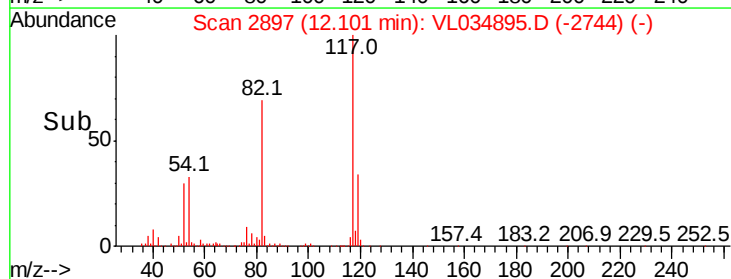
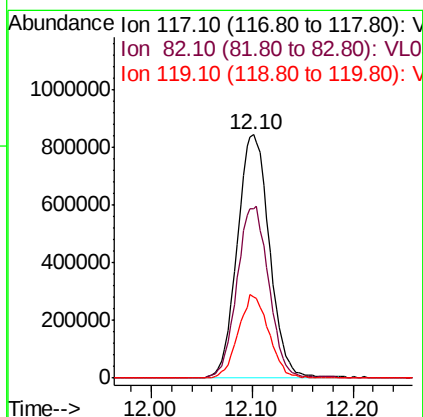
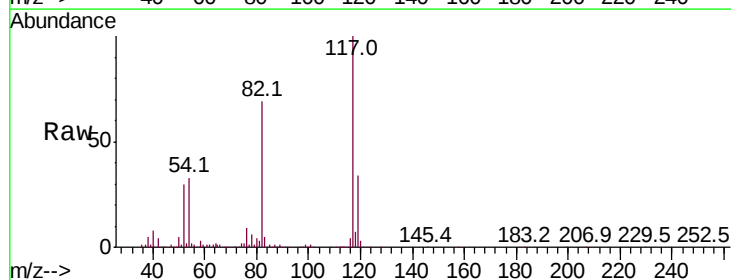
Tgt Ion: 117 Resp: 1870148

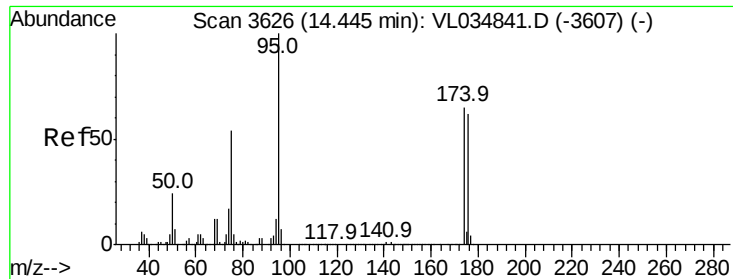
Ion Ratio Lower Upper

117 100

82 70.4 51.1 76.7

119 32.6 27.3 40.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.362 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. -0.01 min

Lab File: VL034895.D

Acq: 16 Mar 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

IA-01DL

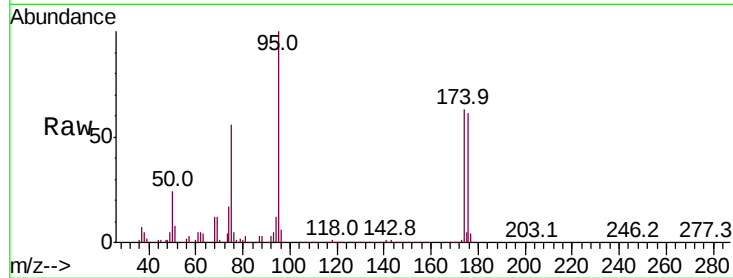
Tot Ion: 95 Resp: 1511226

Ion Ratio Lower Upper

95 100

174 64.2 55.2 82.8

175 4.9 4.3 6.5



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

