

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100819\
 Data File : VL034264.D
 Acq On : 9 Oct 2019 1:11
 Operator : SY/AP
 Sample : K5243-04DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DL

Quant Time: Oct 09 05:22:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Sep 18 12:53:31 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1160053	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1914830	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1904935	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1693068	10.23	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

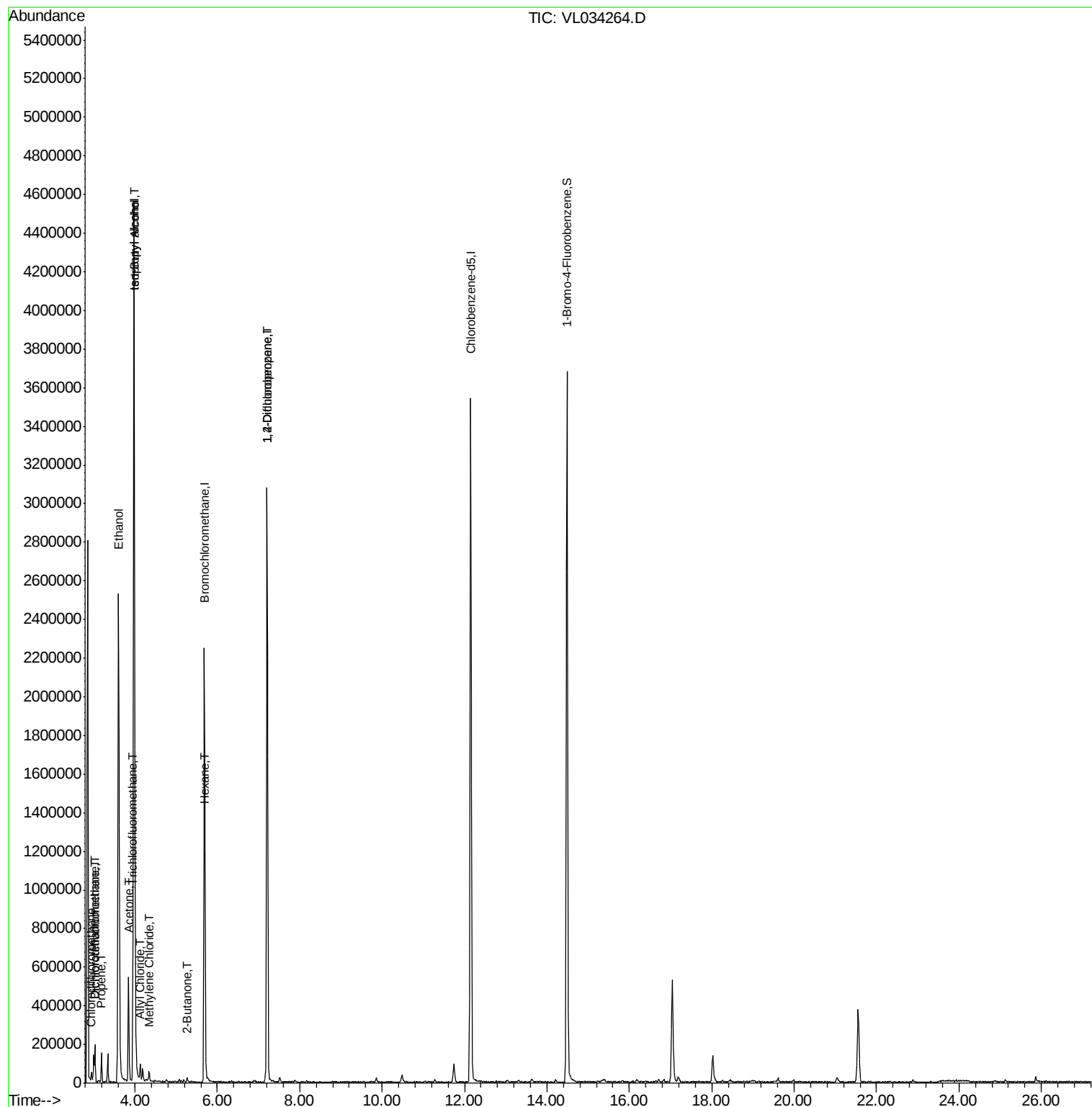
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	123107	0.718	ppbv	100
3) Chlorodifluoromethane	2.94	51	36921	0.271	ppbv #	70
8) Dichlorotetrafluoroethane	3.03	85	123107	0.814	ppbv #	21
9) Propene	3.19	41	35752	0.533	ppbv	95
11) Trichlorofluoromethane	3.94	101	8676	0.056	ppbv	96
13) Ethanol	3.60	45	3269674	201.211	ppbv	98
15) Acetone	3.84	43	513812	3.305	ppbv	100
17) tert-Butyl alcohol	3.97	59	238578	2.422	ppbv	96
19) Isopropyl Alcohol	3.97	45	5710850	59.731	ppbv	100
20) Methylene Chloride	4.34	84	3244	0.072	ppbv #	57
21) Allyl Chloride	4.13	41	21389	0.244	ppbv #	19
26) Hexane	5.71	57	6242	0.051	ppbv #	45
34) 2-Butanone	5.27	43	24062	0.123	ppbv	96
39) 1,2-Dichloropropane	7.21	63	644869	6.787	ppbv #	19

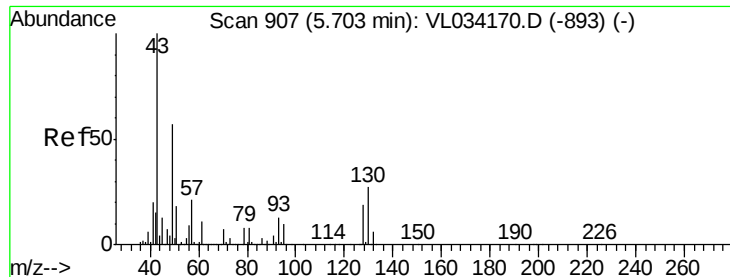
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.02 min

Lab File: VL034264.D

Acq: 9 Oct 2019 1:11

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MSVOA_L

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IA3DL

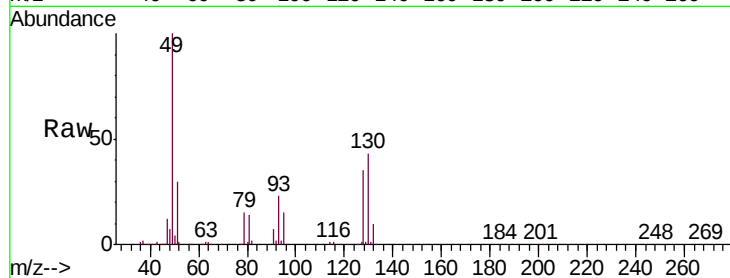
Tgt Ion: 49 Resp: 1160053

Ion Ratio Lower Upper

49 100

128 35.6 17.6 52.9

130 44.5 22.3 66.9



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

800000

600000

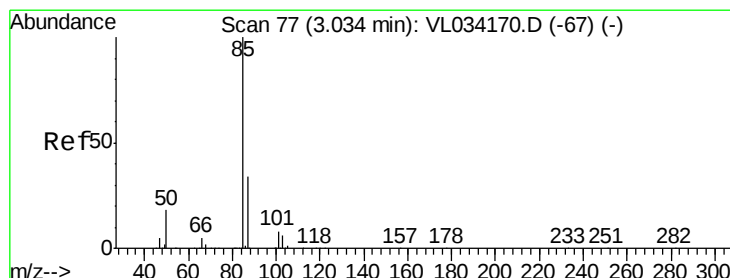
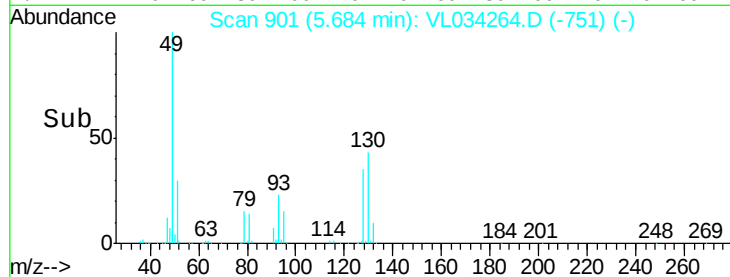
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.718 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL034264.D

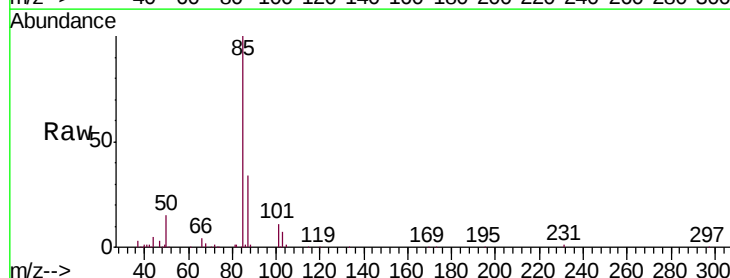
Acq: 9 Oct 2019 1:11

Tgt Ion: 85 Resp: 123107

Ion Ratio Lower Upper

85 100

87 34.0 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

120000

100000

80000

60000

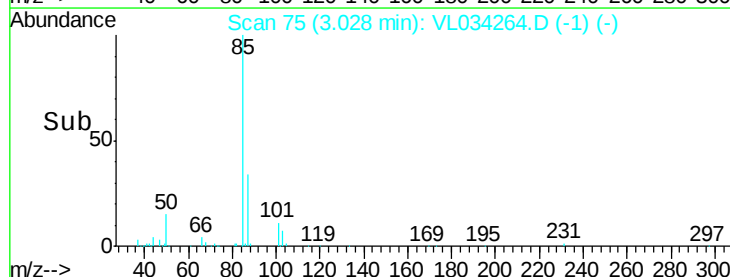
40000

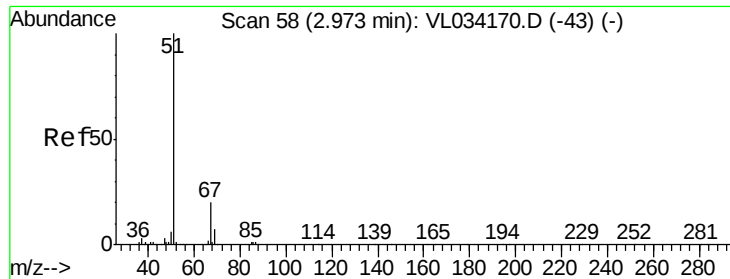
20000

0

3.00 3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.271 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.04 min

Lab File: VL034264.D

Acq: 9 Oct 2019 1:11

Instrument :

MSVOA_L

ClientSampleId :

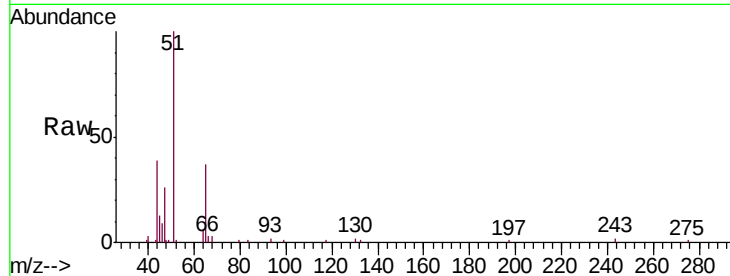
IA3DL

Tgt Ion: 51 Resp: 36921

Ion Ratio Lower Upper

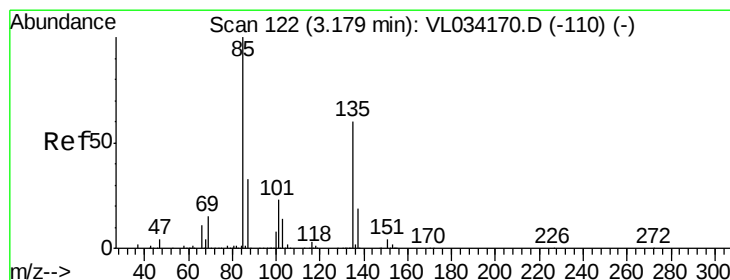
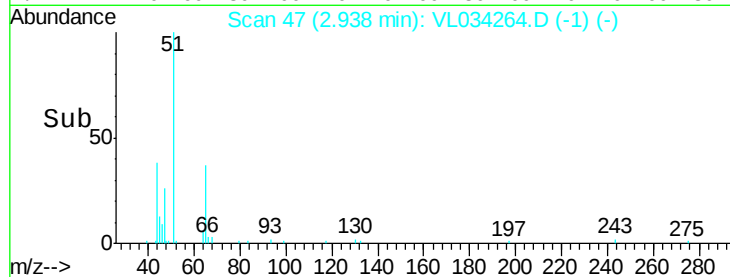
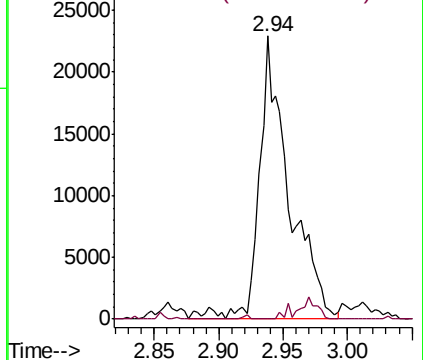
51 100

67 5.0 14.8 22.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.814 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.15 min

Lab File: VL034264.D

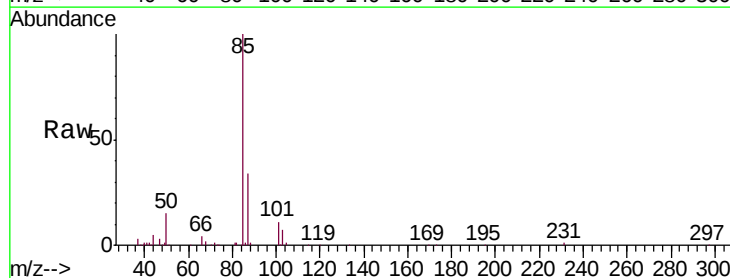
Acq: 9 Oct 2019 1:11

Tgt Ion: 85 Resp: 123107

Ion Ratio Lower Upper

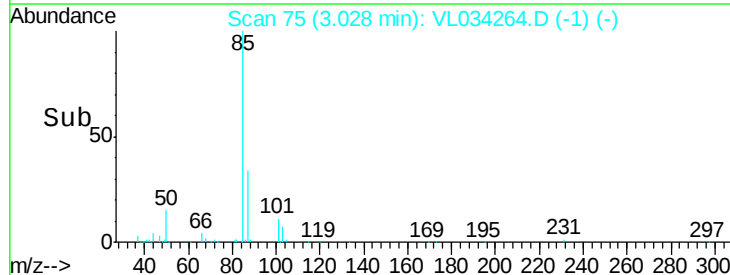
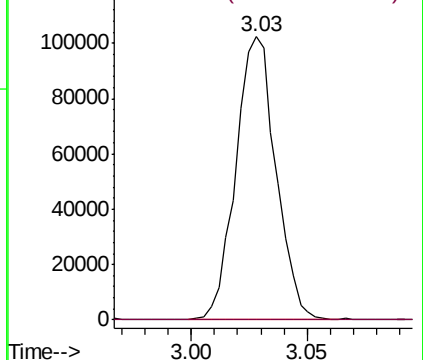
85 100

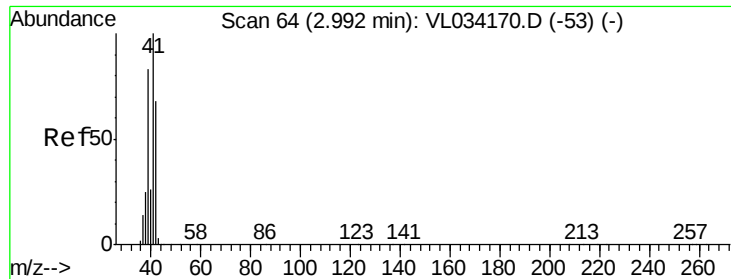
135 0.0 47.3 70.9#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.533 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.19 min

Lab File: VL034264.D

Acq: 9 Oct 2019 1:11

Instrument :

MSVOA_L

ClientSampleId :

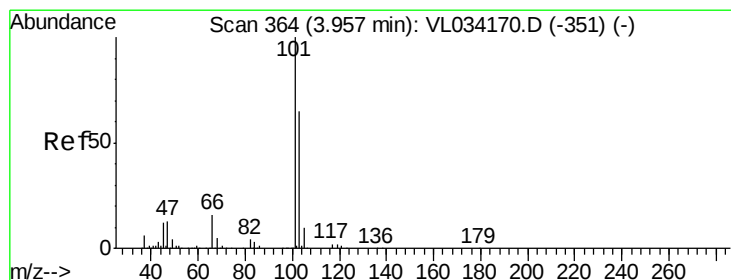
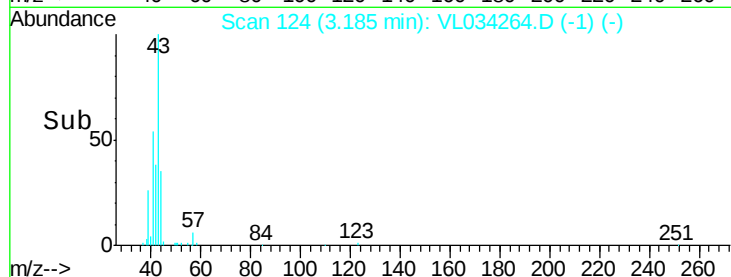
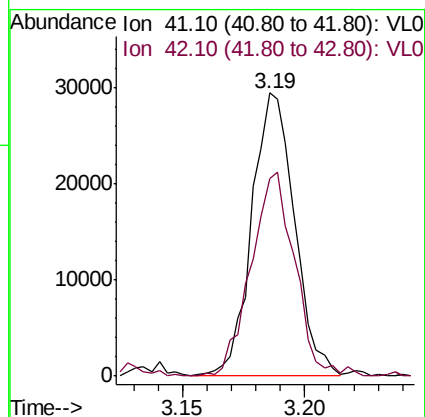
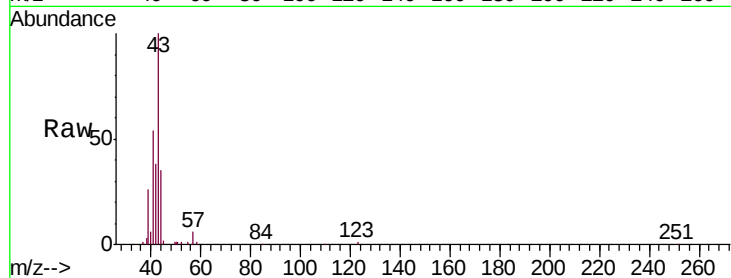
IA3DL

Tgt Ion: 41 Resp: 35752

Ion Ratio Lower Upper

41 100

42 74.1 55.8 83.6



#11

Trichlorofluoromethane

Concen: 0.056 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.02 min

Lab File: VL034264.D

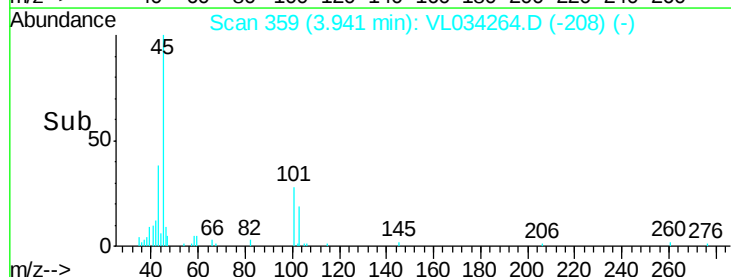
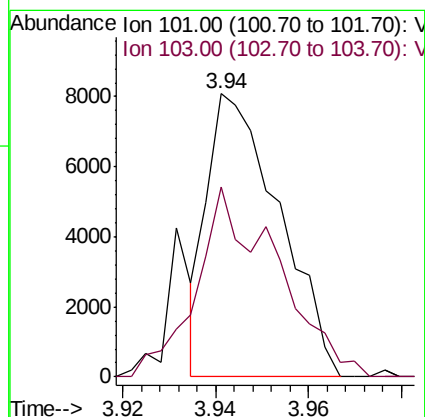
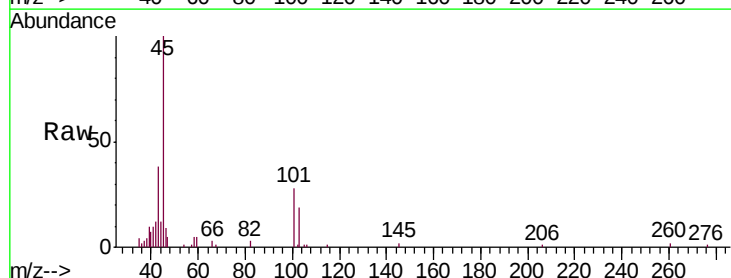
Acq: 9 Oct 2019 1:11

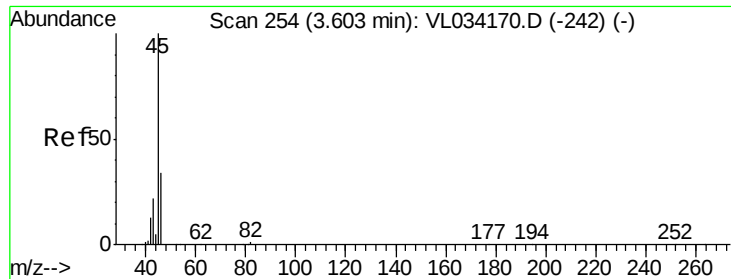
Tgt Ion: 101 Resp: 8676

Ion Ratio Lower Upper

101 100

103 62.3 52.1 78.1

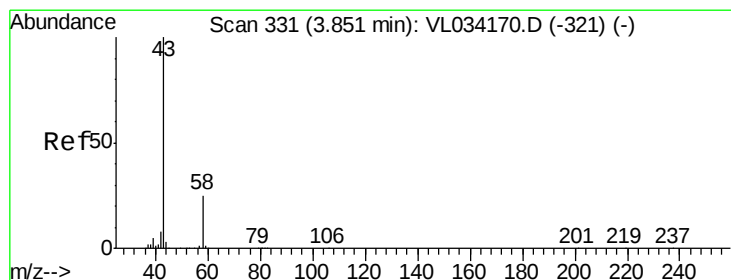
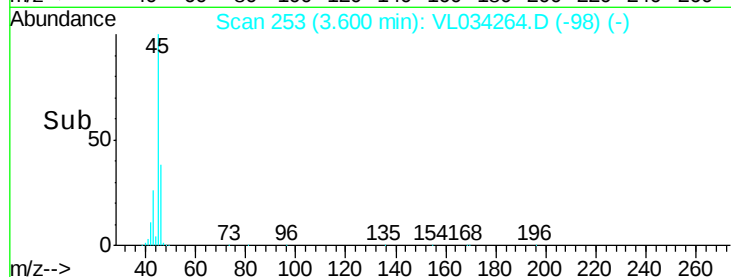
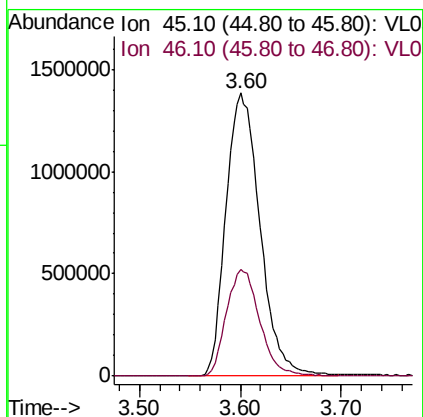
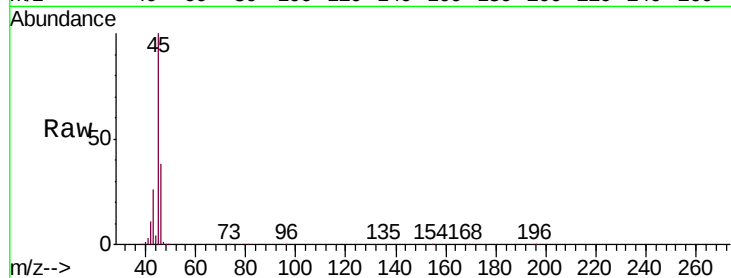




#13
Ethanol
Concen: 201.211 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL034264.D
Acq: 9 Oct 2019 1:11

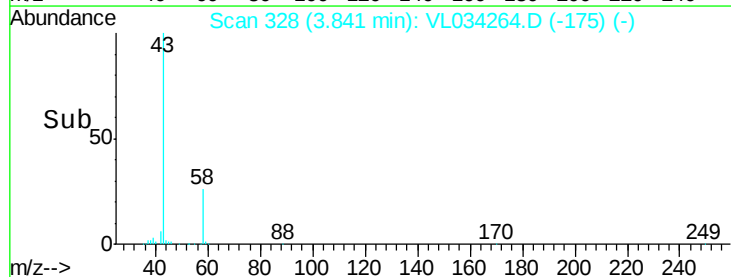
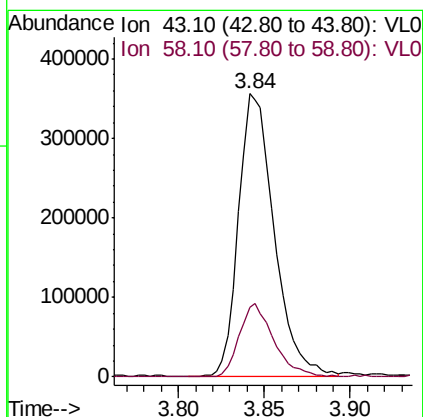
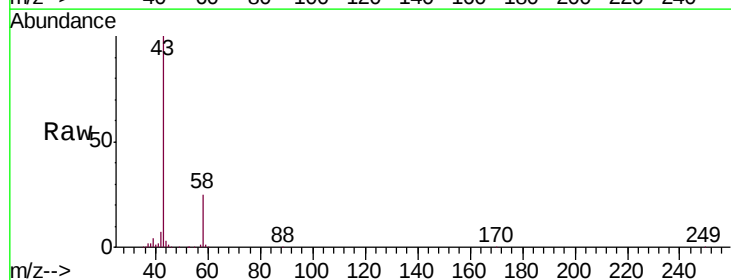
Instrument :
MSVOA_L
ClientSampleId :
IA3DL

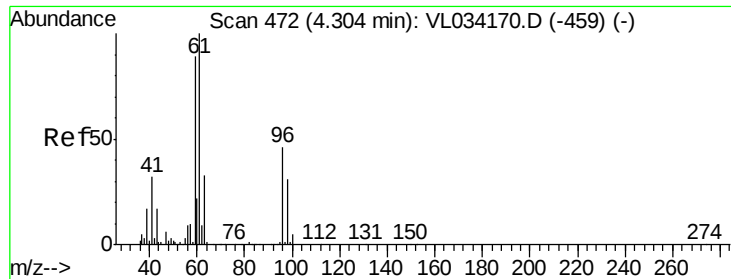
Tgt Ion: 45 Resp: 3269674
Ion Ratio Lower Upper
45 100
46 37.2 15.5 61.9



#15
Acetone
Concen: 3.305 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL034264.D
Acq: 9 Oct 2019 1:11

Tgt Ion: 43 Resp: 513812
Ion Ratio Lower Upper
43 100
58 25.5 20.5 30.7

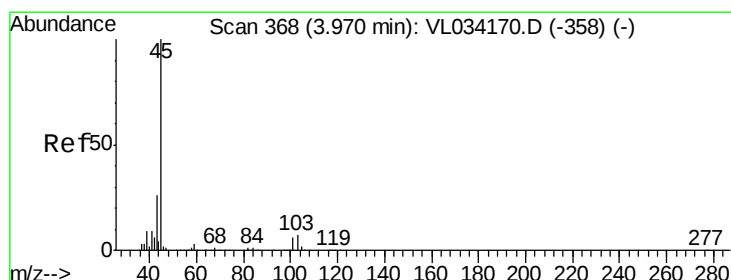
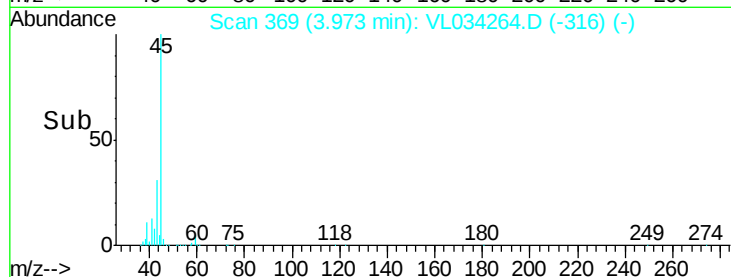
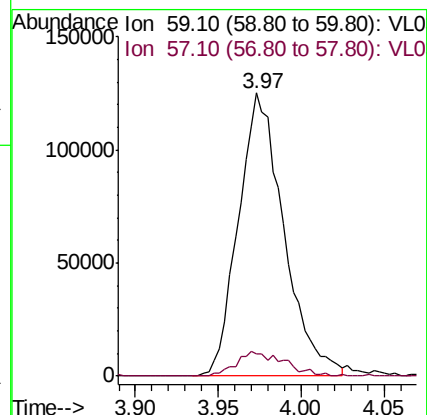
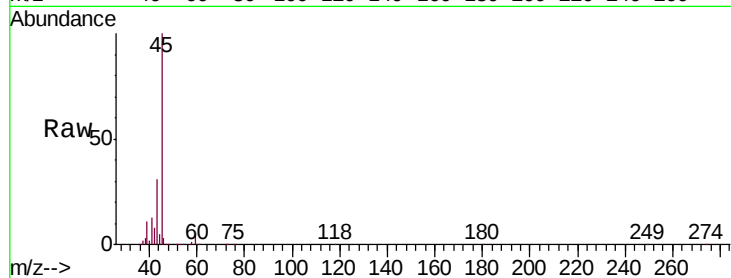




#17
 tert-Butyl alcohol
 Concen: 2.422 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. -0.33 min
 Lab File: VL034264.D
 Acq: 9 Oct 2019 1:11

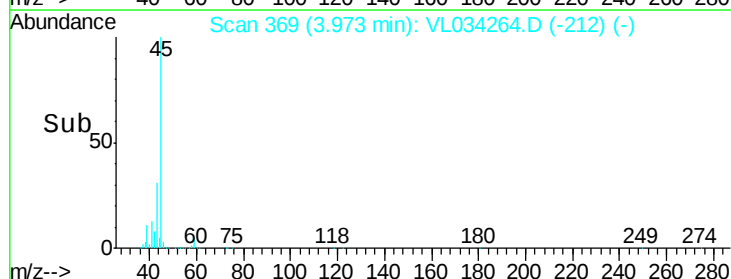
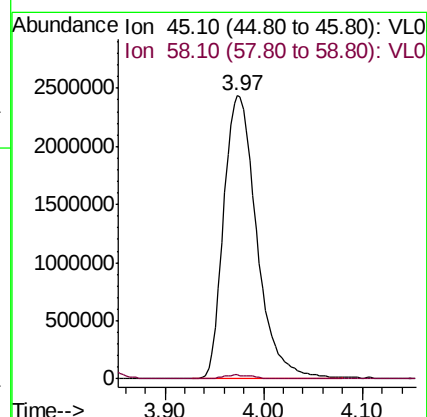
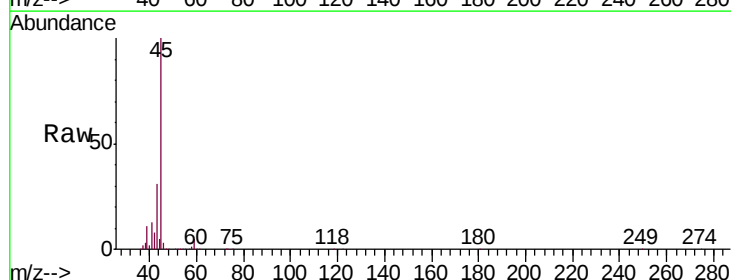
Instrument :
 MSVOA_L
 ClientSampleID :
 IA3DL

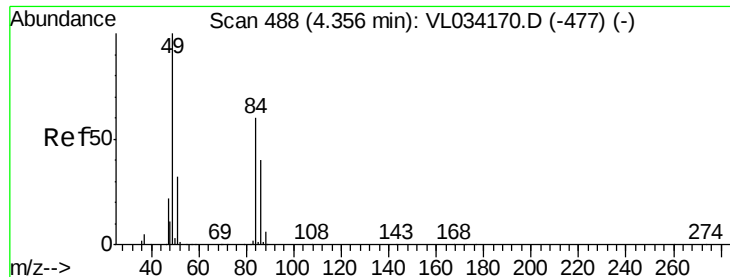
Tgt Ion: 59 Resp: 238578
 Ion Ratio Lower Upper
 59 100
 57 9.4 8.7 13.1



#19
 Isopropyl Alcohol
 Concen: 59.731 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.00 min
 Lab File: VL034264.D
 Acq: 9 Oct 2019 1:11

Tgt Ion: 45 Resp: 5710850
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.4 2.0

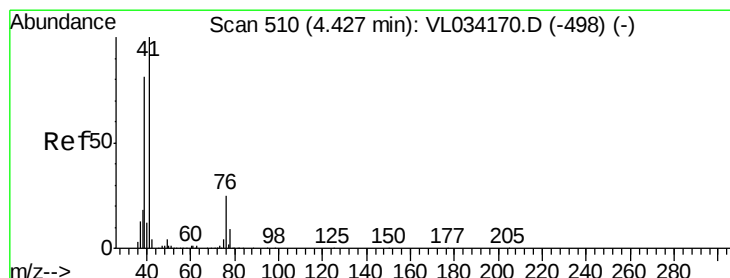
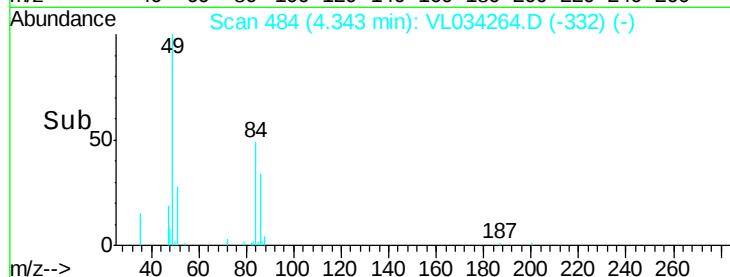
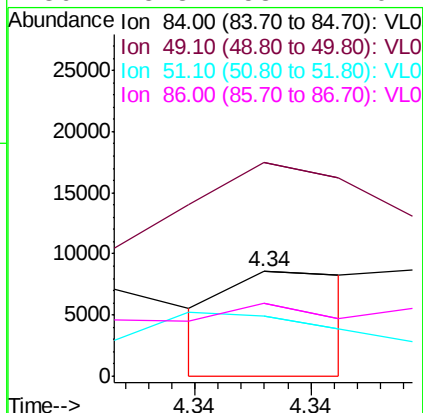
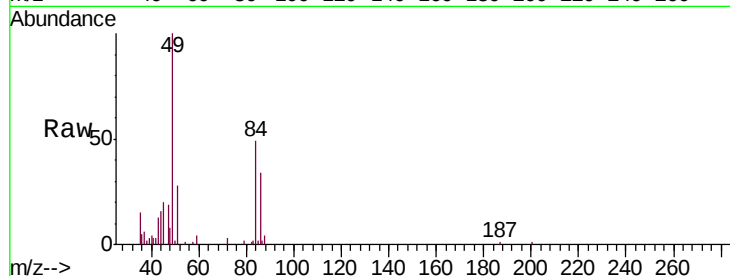




#20
Methylene Chloride
Concen: 0.072 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL034264.D
Acq: 9 Oct 2019 1:11

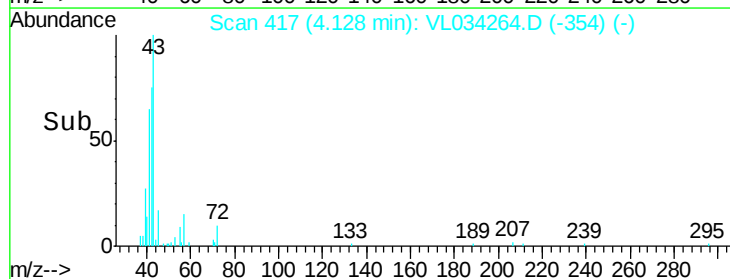
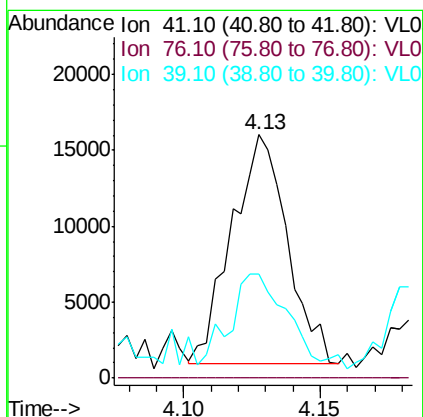
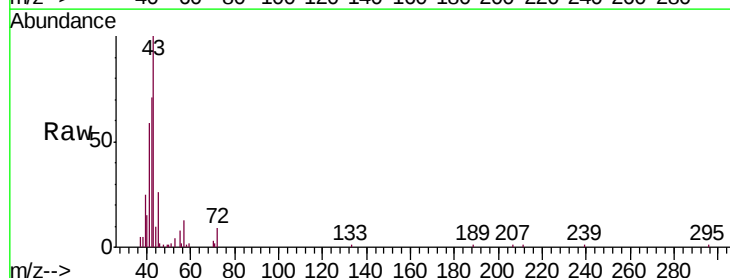
Instrument :
MSVOA_L
ClientSampleId :
IA3DL

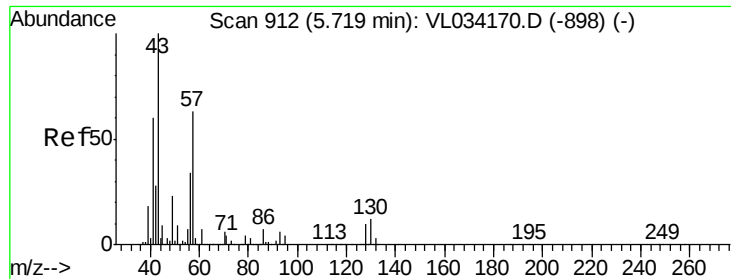
Tgt Ion:	84	Resp:	3244
Ion	Ratio	Lower	Upper
84	100		
49	94.7	133.8	200.8#
51	33.6	43.6	65.4#
86	45.3	53.1	79.7#



#21
Allyl Chloride
Concen: 0.244 ppbv
RT: 4.13 min Scan# 417
Delta R.T. -0.30 min
Lab File: VL034264.D
Acq: 9 Oct 2019 1:11

Tgt Ion:	41	Resp:	21389
Ion	Ratio	Lower	Upper
41	100		
76	0.5	21.8	32.6#
39	0.0	64.8	97.2#

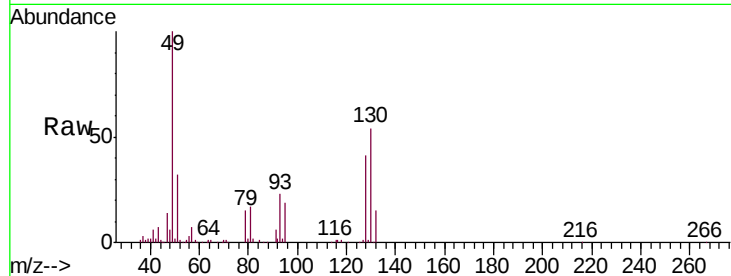




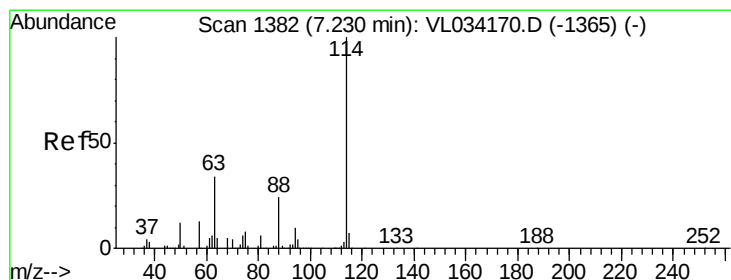
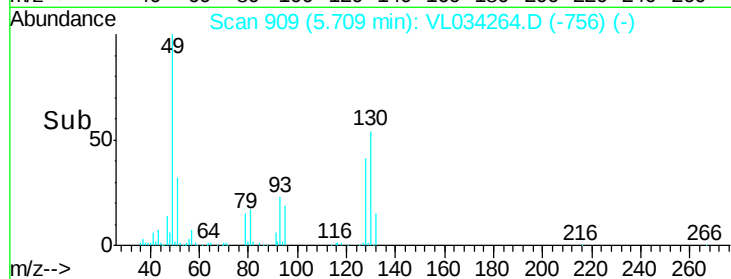
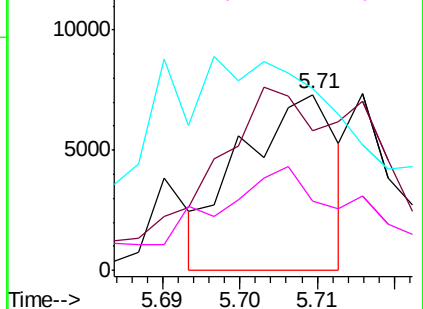
#26
Hexane
Concen: 0.051 ppbv
RT: 5.71 min Scan# 909
Delta R.T. -0.01 min
Lab File: VL034264.D
Acq: 9 Oct 2019 1:11

Instrument :
MSVOA_L
ClientSampleId :
IA3DL

Tgt Ion: 57 Resp: 6242
Ion Ratio Lower Upper
57 100
41 204.4 78.5 117.7#
43 288.5 189.5 284.3#
56 104.0 43.2 64.8#

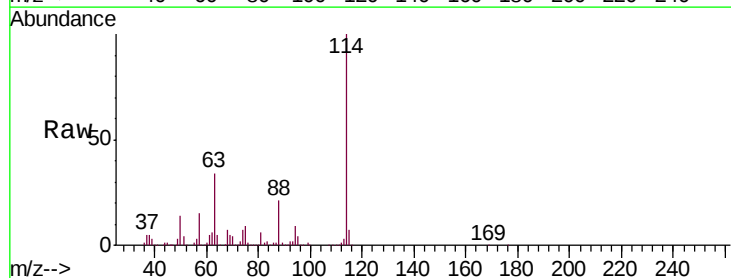


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

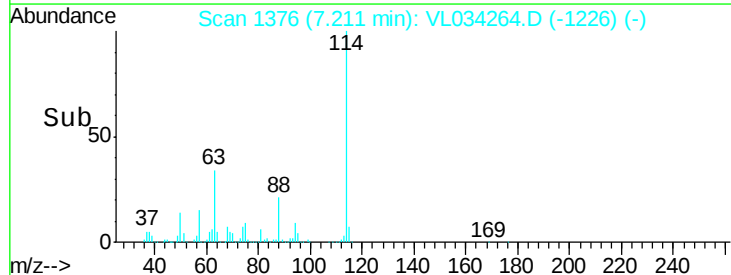
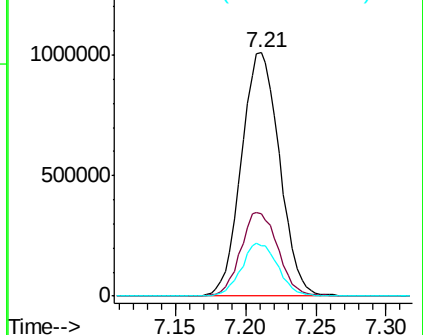


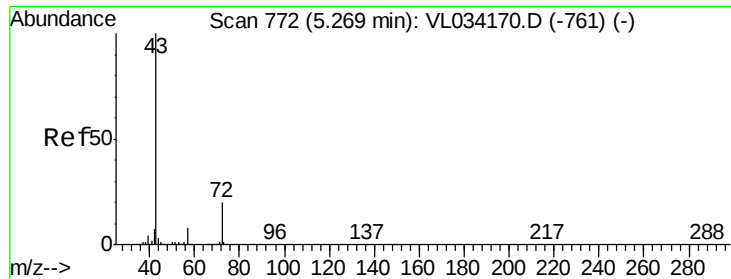
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1376
Delta R.T. -0.02 min
Lab File: VL034264.D
Acq: 9 Oct 2019 1:11

Tgt Ion: 114 Resp: 1914830
Ion Ratio Lower Upper
114 100
63 34.0 27.8 41.6
88 21.1 17.1 25.7



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

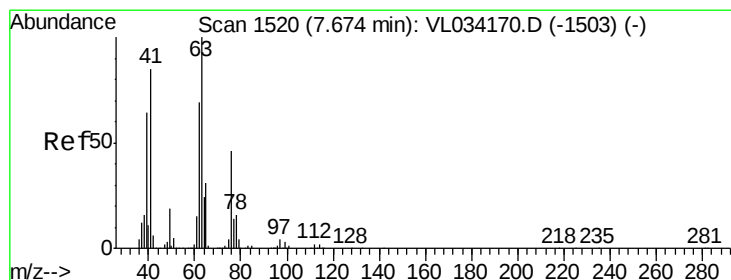
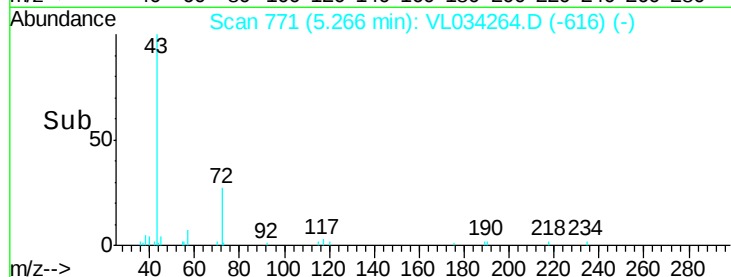
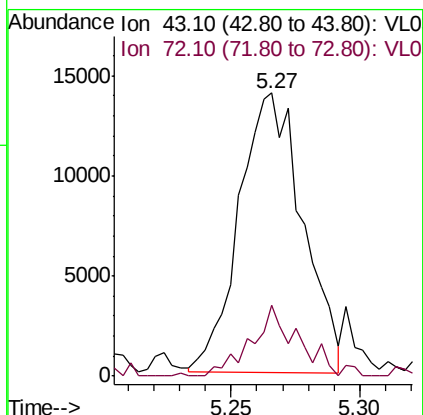
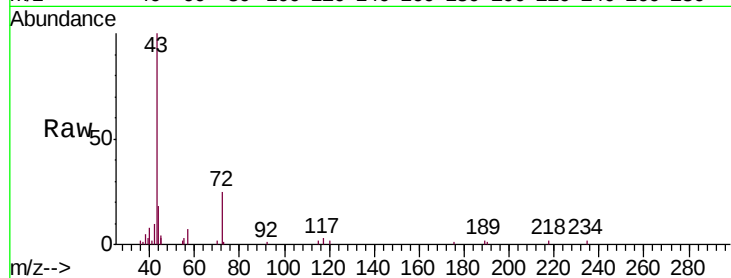




#34
2-Butanone
Concen: 0.123 ppbv
RT: 5.27 min Scan# 771
Delta R.T. -0.00 min
Lab File: VL034264.D
Acq: 9 Oct 2019 1:11

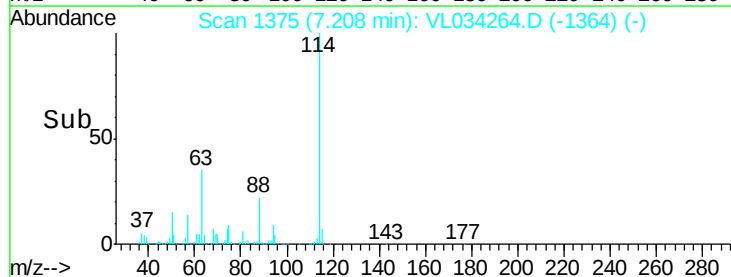
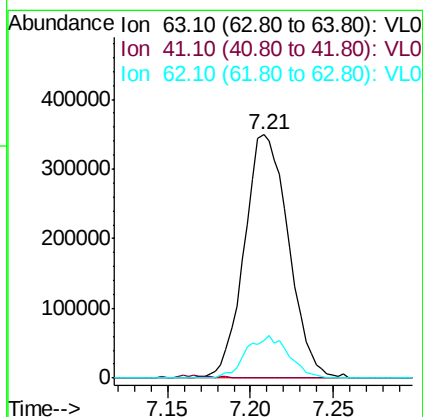
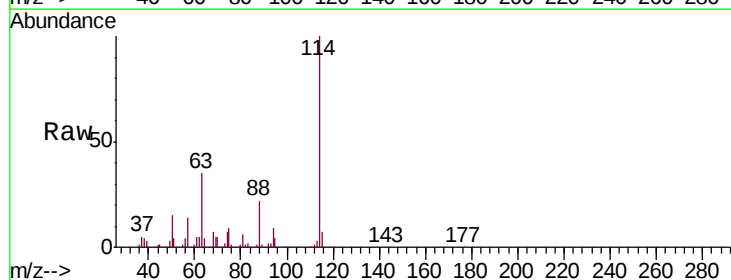
Instrument :
MSVOA_L
ClientSampleId :
IA3DL

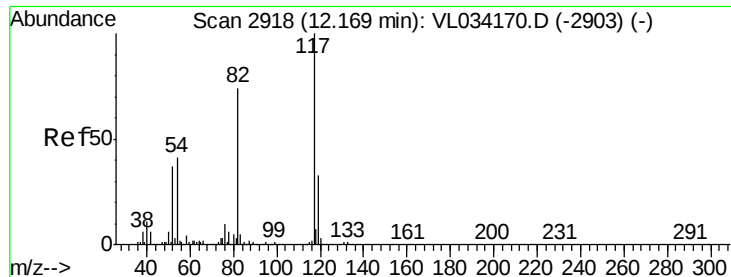
Tgt Ion: 43 Resp: 24062
Ion Ratio Lower Upper
43 100
72 20.6 15.0 22.6



#39
1,2-Dichloropropane
Concen: 6.787 ppbv
RT: 7.21 min Scan# 1375
Delta R.T. -0.47 min
Lab File: VL034264.D
Acq: 9 Oct 2019 1:11

Tgt Ion: 63 Resp: 644869
Ion Ratio Lower Upper
63 100
41 0.0 68.4 102.6#
62 15.4 55.4 83.2#

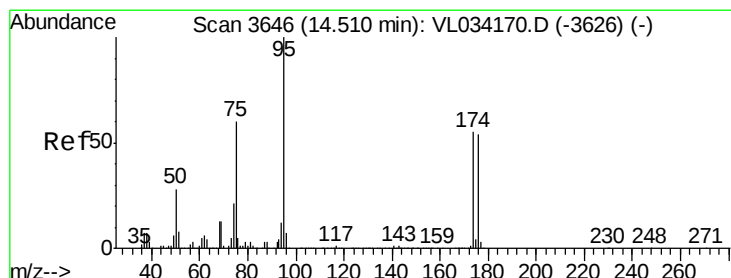
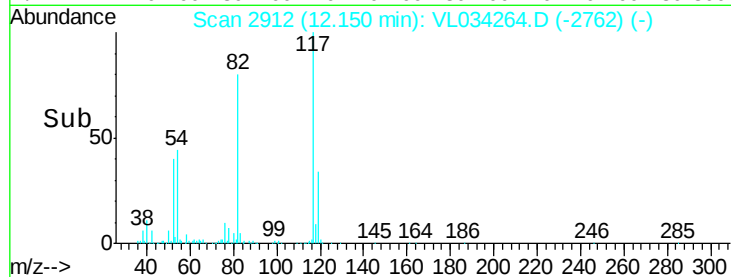
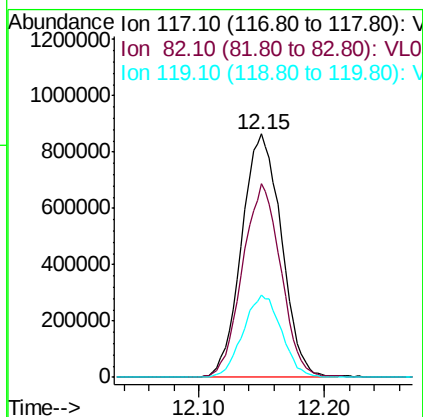
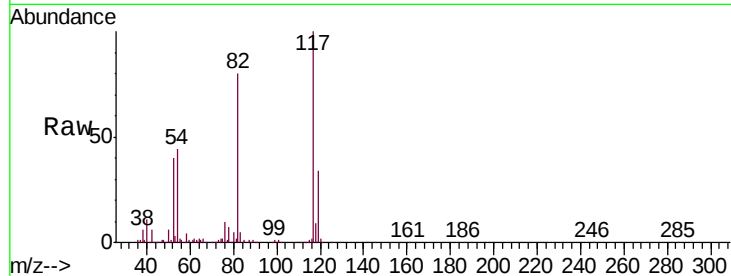




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.02 min
Lab File: VL034264.D
Acq: 9 Oct 2019 1:11

Instrument :
MSVOA_L
ClientSampleID :
IA3DL

Tgt Ion: 117 Resp: 1904935
Ion Ratio Lower Upper
117 100
82 77.1 58.2 87.4
119 32.7 23.7 35.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.228 ppbv
RT: 14.49 min Scan# 3639
Delta R.T. -0.02 min
Lab File: VL034264.D
Acq: 9 Oct 2019 1:11

Tgt Ion: 95 Resp: 1693068
Ion Ratio Lower Upper
95 100
174 55.8 45.1 67.7
175 4.0 3.3 4.9

