

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL123019\
 Data File : VL034521.D
 Acq On : 30 Dec 2019 21:09
 Operator : SY/AP
 Sample : K6388-03DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

Quant Time: Dec 31 05:01:37 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

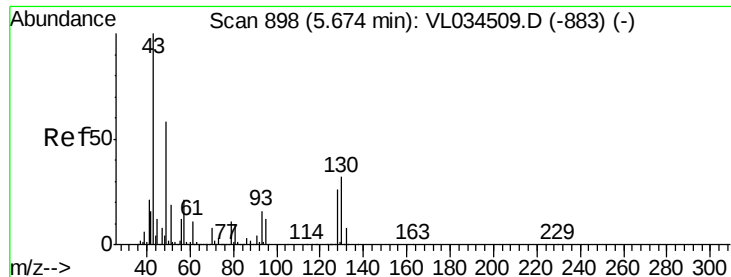
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	993293	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1957971	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1945948	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1631026	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.96	51	3946	0.033	ppbv	97
7) Chloroethane	3.53	64	2930	0.122	ppbv	92
9) Propene	2.99	41	4482	0.098	ppbv #	71
13) Ethanol	3.60	45	3116	0.246	ppbv	73
15) Acetone	3.85	43	36678	0.253	ppbv	92
16) 1,3-Butadiene	3.28	39	4313	0.077	ppbv #	15
18) 1,1-Dichloroethene	4.27	96	3132	0.062	ppbv #	65
20) Methylene Chloride	4.33	84	15450	0.271	ppbv	87
24) 1,1-Dichloroethane	5.00	63	13651	0.102	ppbv #	90
30) Cyclohexane	7.18	84	3762	0.053	ppbv #	1
39) 1,2-Dichloropropane	7.19	63	580495	8.271	ppbv #	22

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL034521.D

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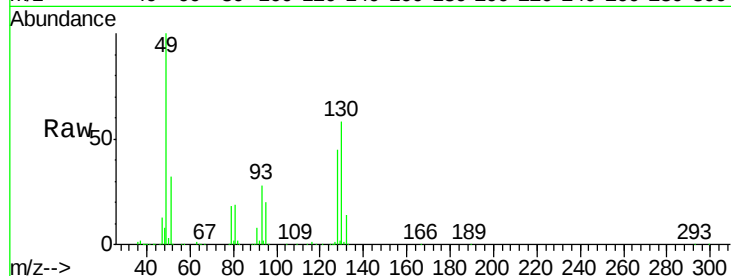
Tgt Ion: 49 Resp: 993293

Ion Ratio Lower Upper

49 100

128 43.4 22.4 67.2

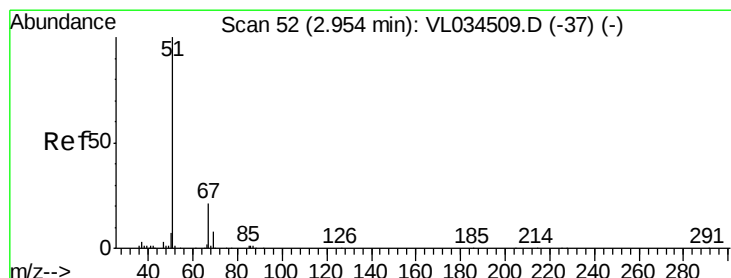
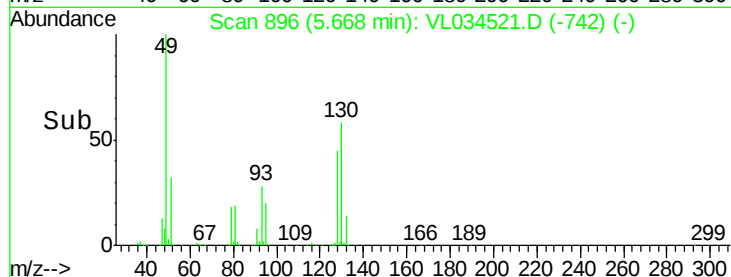
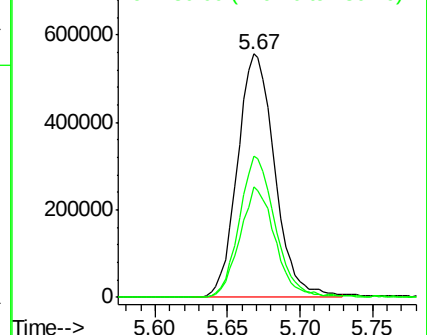
130 56.8 28.3 85.0



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



#3

Chlorodifluoromethane

Concen: 0.033 ppbv

RT: 2.96 min Scan# 53

Delta R.T. 0.00 min

Lab File: VL034521.D

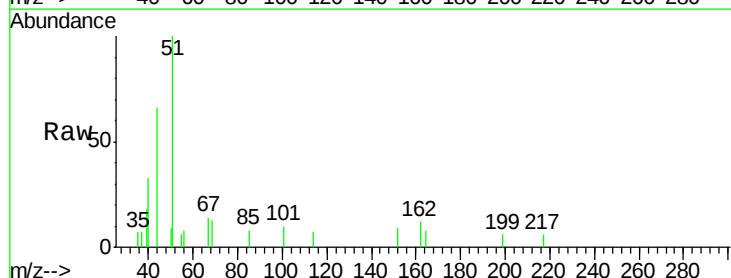
Acq: 30 Dec 2019 21:09

Tgt Ion: 51 Resp: 3946

Ion Ratio Lower Upper

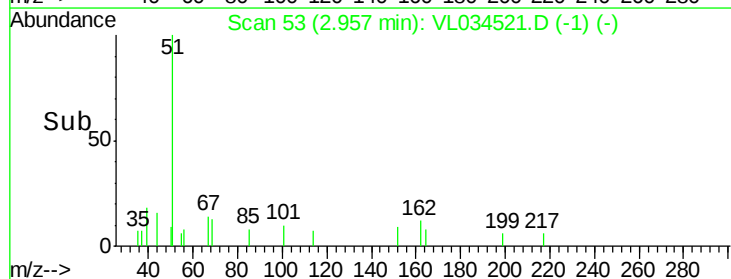
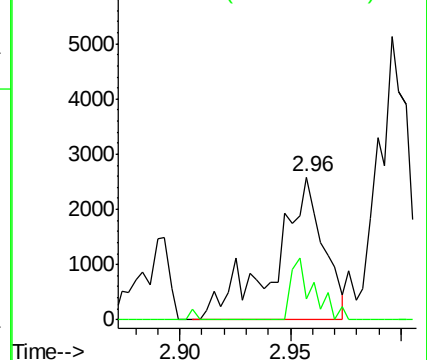
51 100

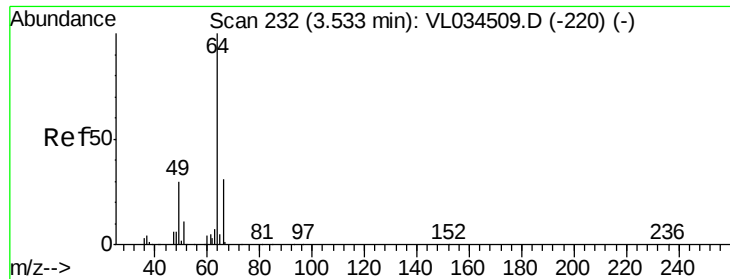
67 19.8 16.8 25.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#7

Chloroethane

Concen: 0.122 ppbv

RT: 3.53 min Scan# 230

Delta R.T. -0.01 min

Lab File: VL034521.D

Acq: 30 Dec 2019 21:09

Instrument :

MSVOA_L

ClientSampleId :

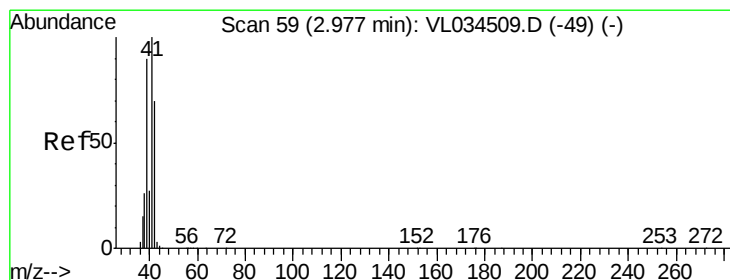
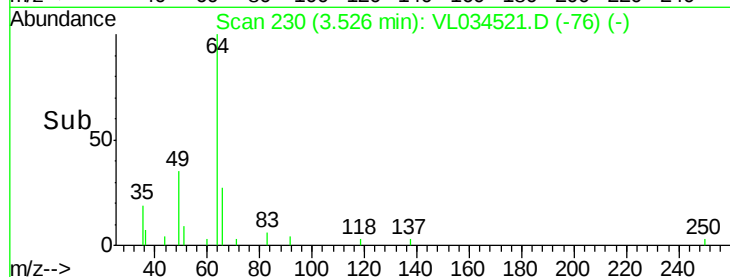
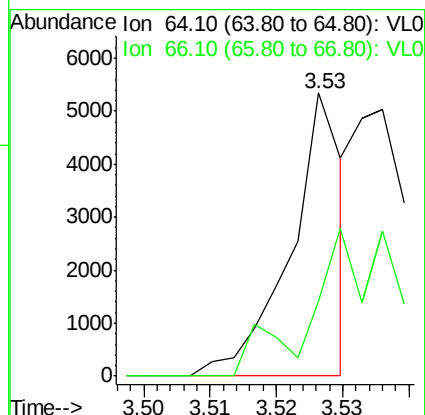
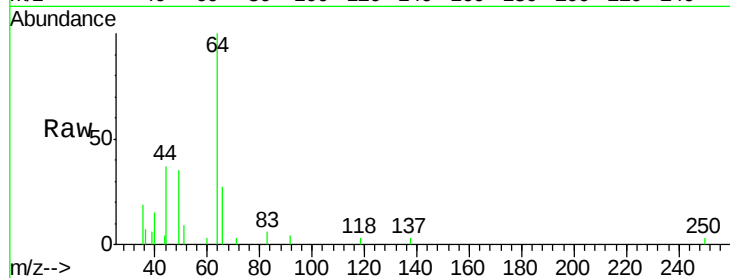
EFFLUENTDL

Tgt Ion: 64 Resp: 2930

Ion Ratio Lower Upper

64 100

66 26.5 25.0 37.4



#9

Propene

Concen: 0.098 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL034521.D

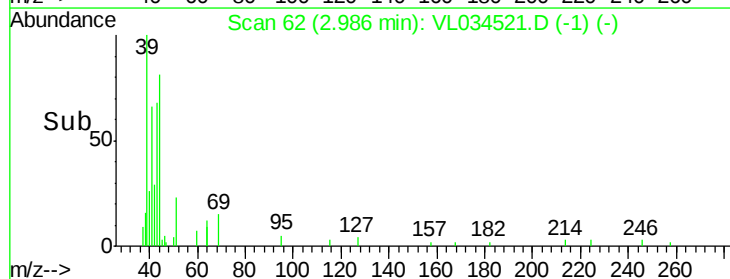
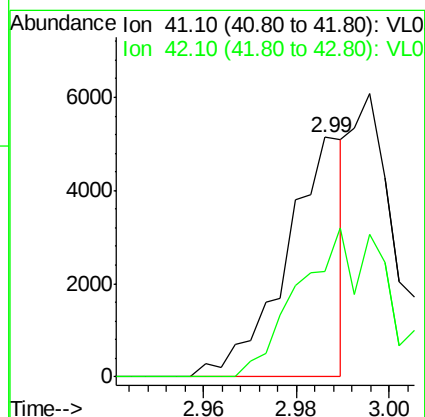
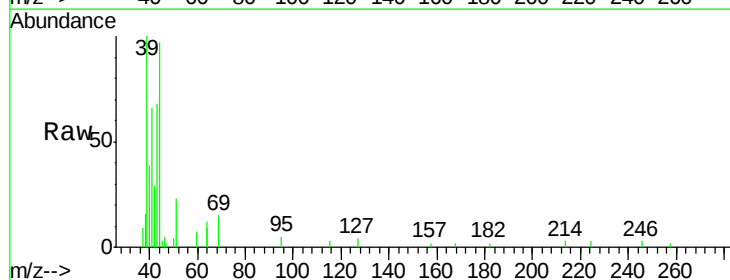
Acq: 30 Dec 2019 21:09

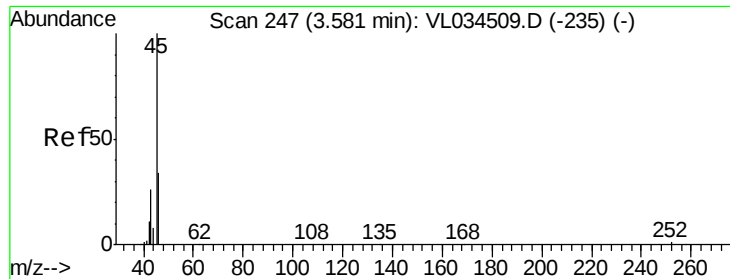
Tgt Ion: 41 Resp: 4482

Ion Ratio Lower Upper

41 100

42 93.3 55.8 83.6#





#13

Ethanol

Concen: 0.246 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.02 min

Lab File: VL034521.D

Acq: 30 Dec 2019 21:09

Instrument :

MSVOA_L

ClientSampleId :

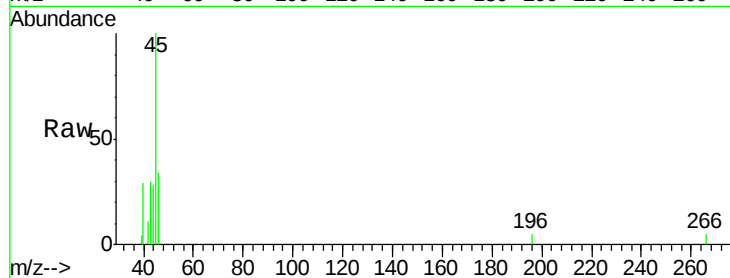
EFFLUENTDL

Tgt Ion: 45 Resp: 3116

Ion Ratio Lower Upper

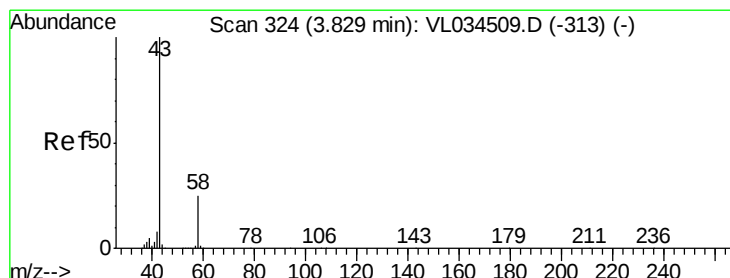
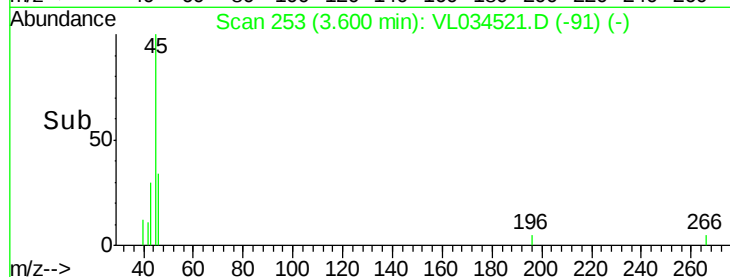
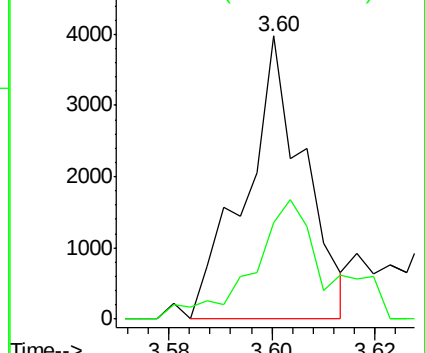
45 100

46 53.5 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: 0.253 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.02 min

Lab File: VL034521.D

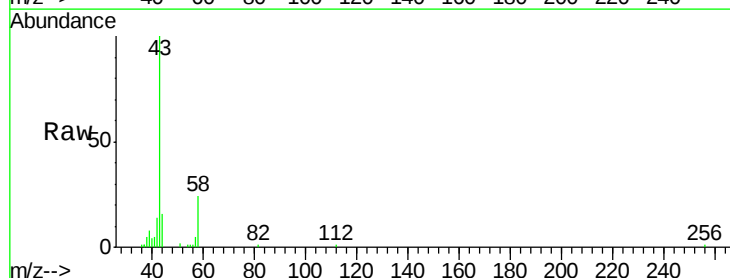
Acq: 30 Dec 2019 21:09

Tgt Ion: 43 Resp: 36678

Ion Ratio Lower Upper

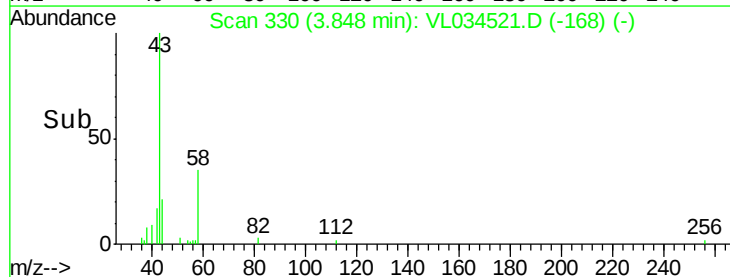
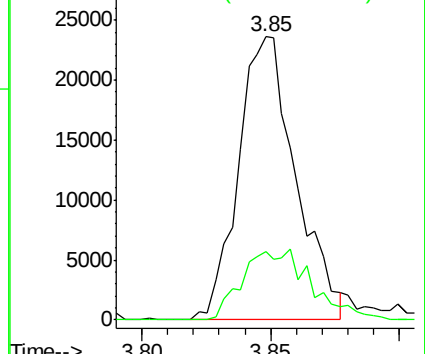
43 100

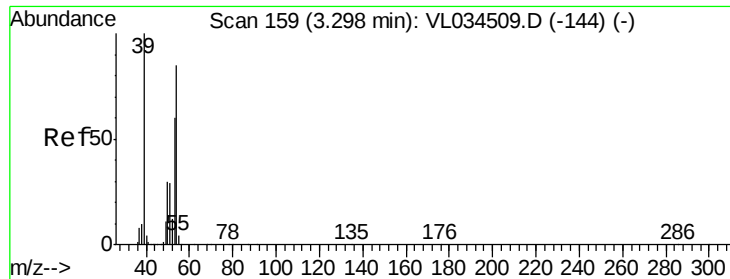
58 29.7 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

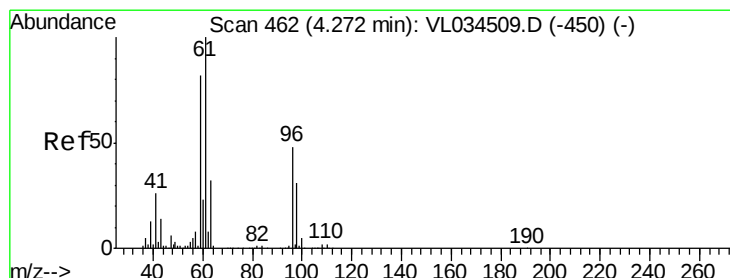
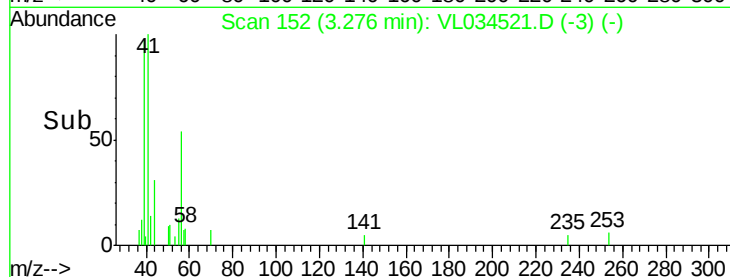
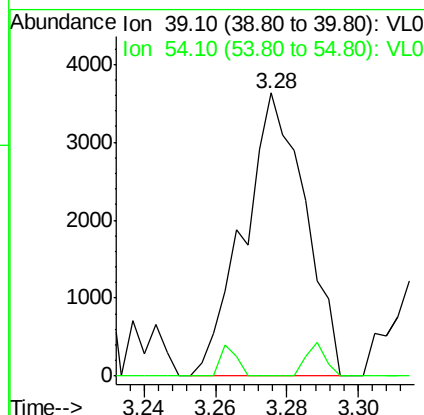
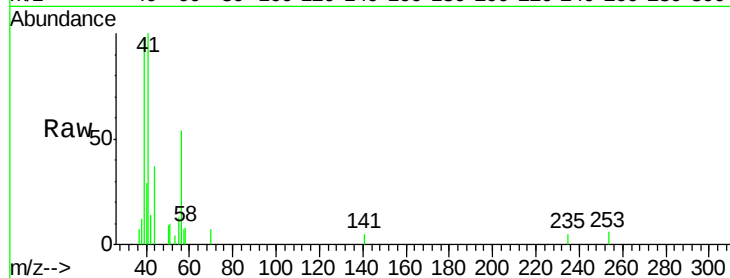




#16
 1,3-Butadiene
 Concen: 0.077 ppbv
 RT: 3.28 min Scan# 152
 Delta R.T. -0.02 min
 Lab File: VL034521.D
 Acq: 30 Dec 2019 21:09

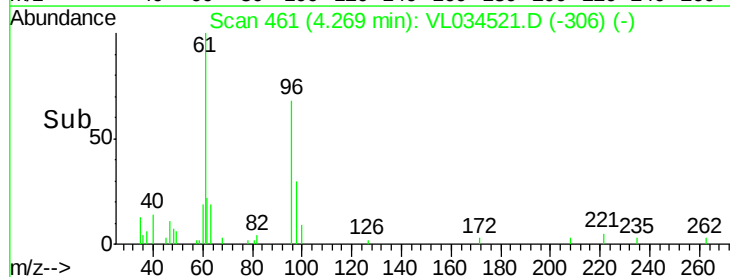
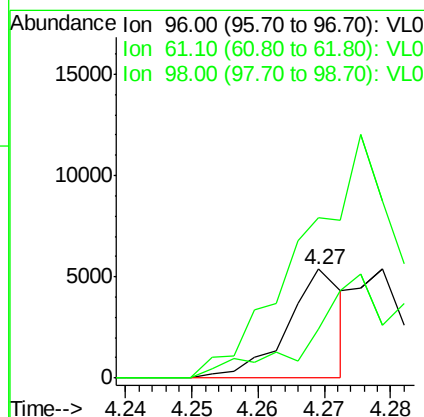
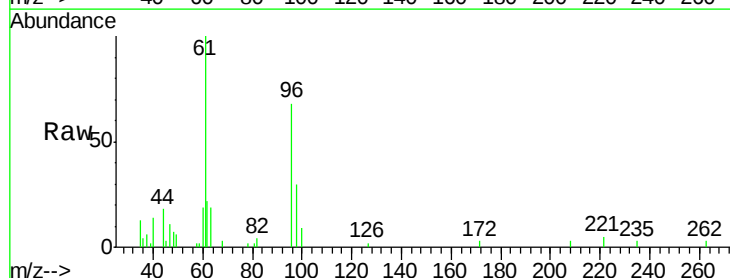
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

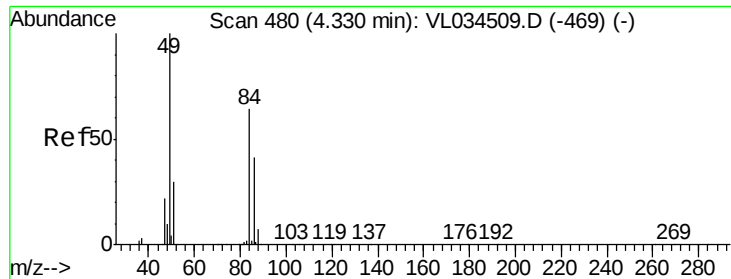
Tgt Ion: 39 Resp: 4313
 Ion Ratio Lower Upper
 39 100
 54 6.7 66.2 99.2#



#18
 1,1-Dichloroethene
 Concen: 0.062 ppbv
 RT: 4.27 min Scan# 461
 Delta R.T. -0.00 min
 Lab File: VL034521.D
 Acq: 30 Dec 2019 21:09

Tgt Ion: 96 Resp: 3132
 Ion Ratio Lower Upper
 96 100
 61 147.7 165.9 248.9#
 98 44.6 51.9 77.9#

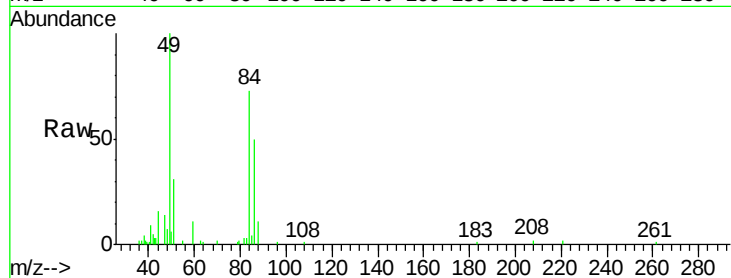




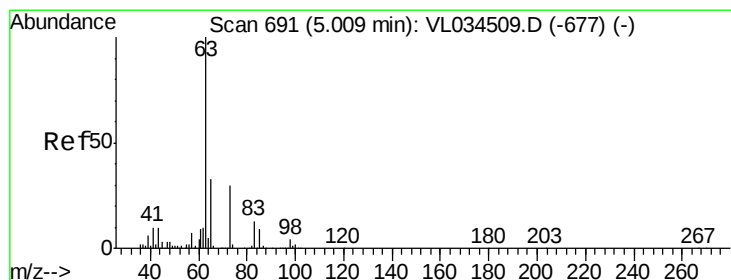
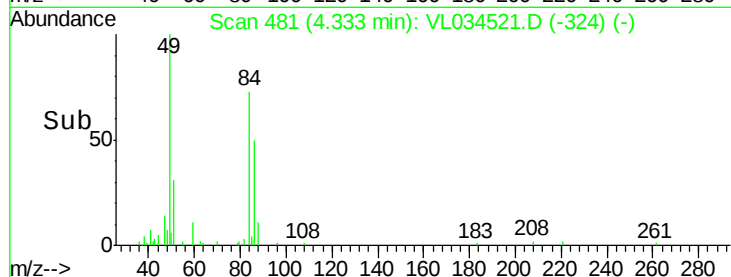
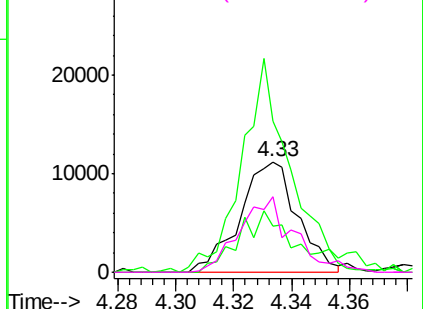
#20
Methylene Chloride
Concen: 0.271 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.00 min
Lab File: VL034521.D
Acq: 30 Dec 2019 21:09

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDL

Tgt Ion:	84	Resp:	15450
Ion	Ratio	Lower	Upper
84	100		
49	131.5	124.4	186.6
51	41.6	37.0	55.6
86	68.1	50.9	76.3

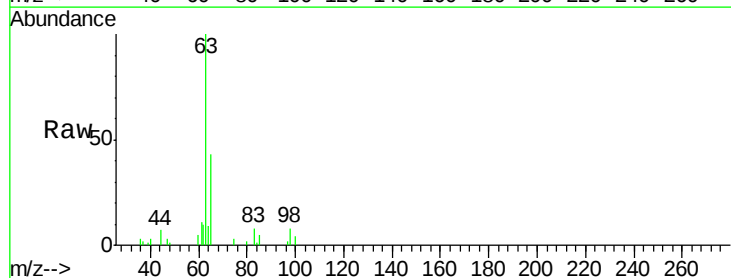


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

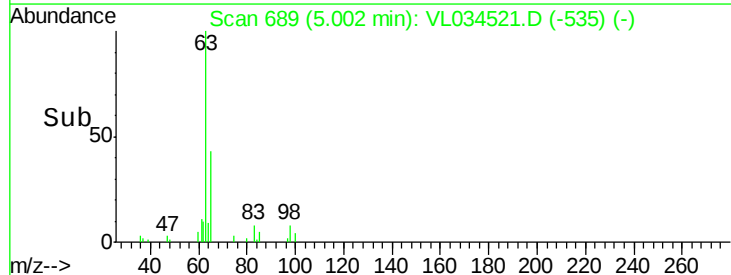
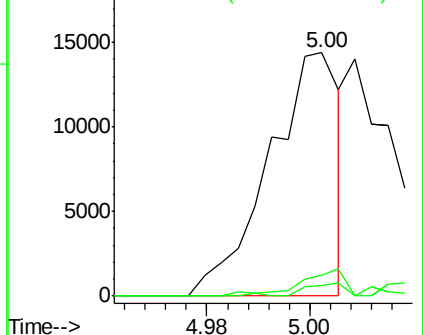


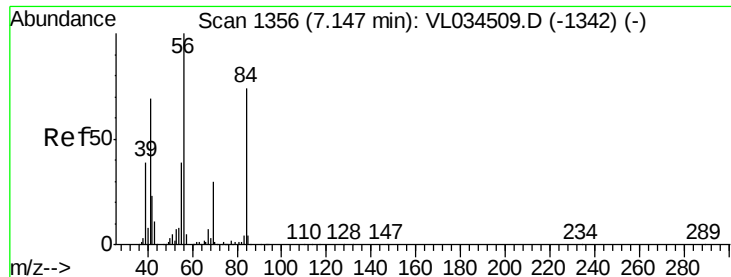
#24
1,1-Dichloroethane
Concen: 0.102 ppbv
RT: 5.00 min Scan# 689
Delta R.T. -0.01 min
Lab File: VL034521.D
Acq: 30 Dec 2019 21:09

Tgt Ion:	63	Resp:	13651
Ion	Ratio	Lower	Upper
63	100		
98	8.4	2.1	6.3#
100	4.3	1.1	3.3#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0

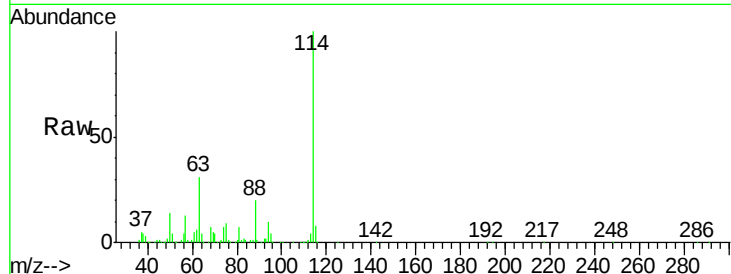




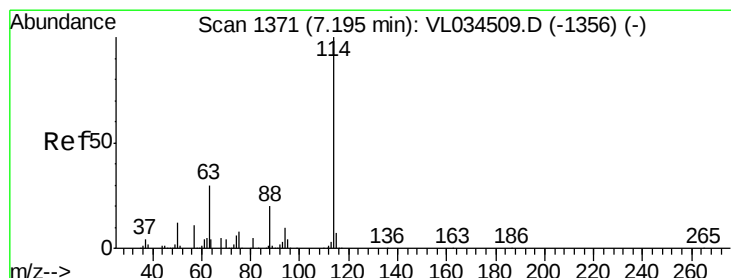
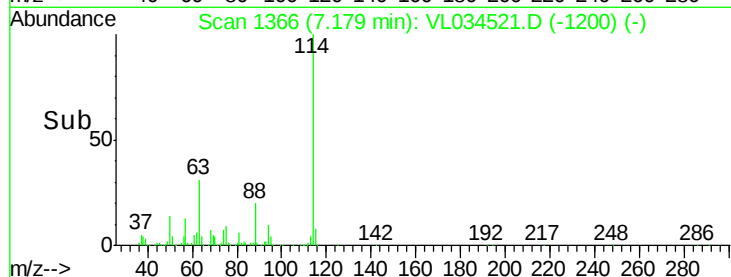
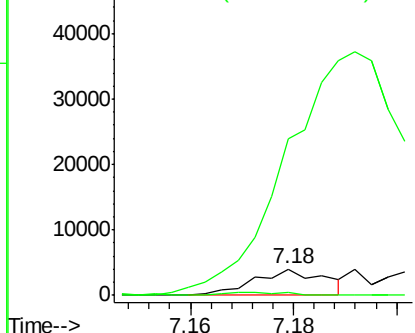
#30
Cyclohexane
Concen: 0.053 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.03 min
Lab File: VL034521.D
Acq: 30 Dec 2019 21:09

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDL

Tgt Ion: 84 Resp: 3762
Ion Ratio Lower Upper
84 100
56 0.0 112.7 169.1#
41 9.6 73.0 109.4#

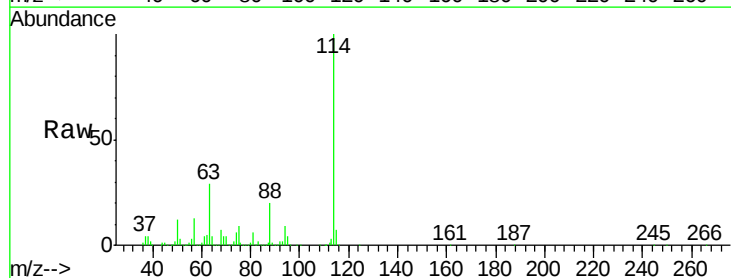


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

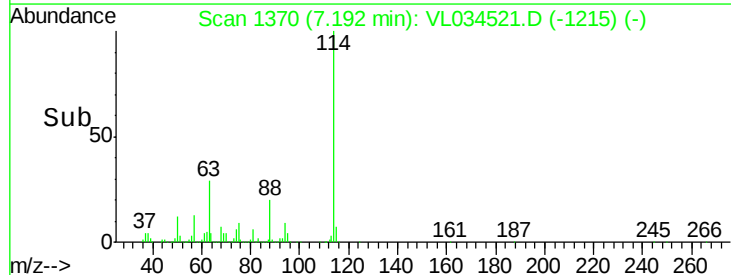
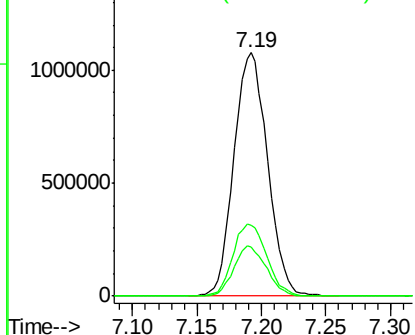


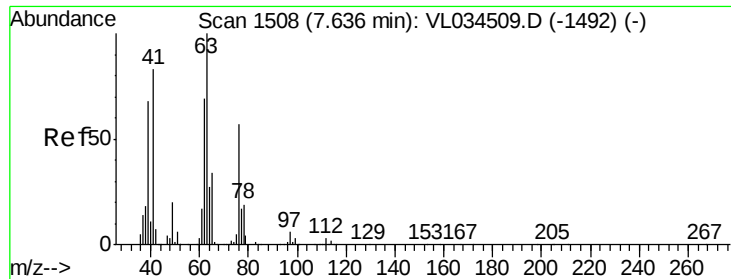
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. -0.00 min
Lab File: VL034521.D
Acq: 30 Dec 2019 21:09

Tgt Ion: 114 Resp: 1957971
Ion Ratio Lower Upper
114 100
63 29.9 24.1 36.1
88 19.9 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

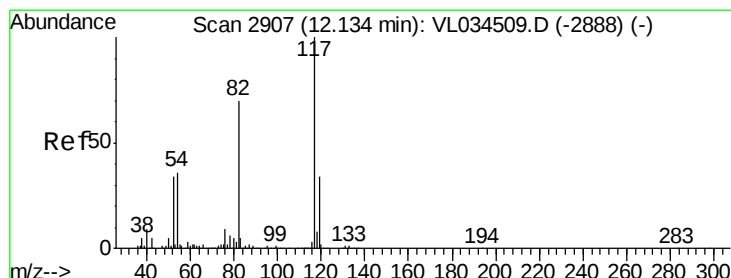
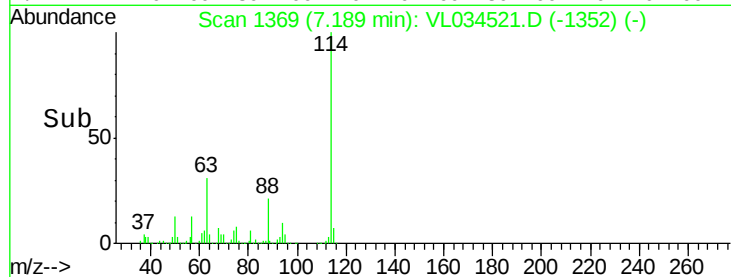
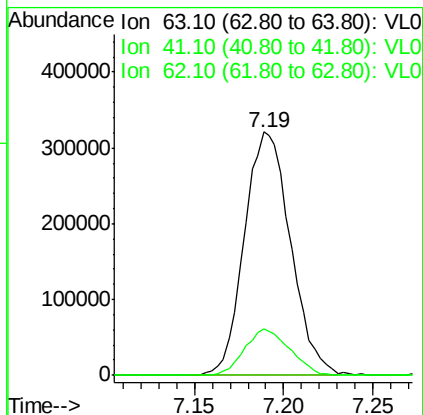
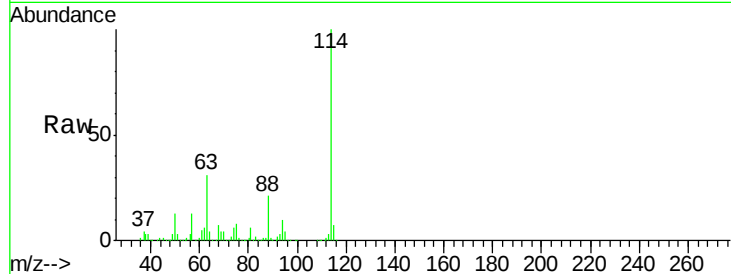




#39
 1,2-Dichloropropane
 Concen: 8.271 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. -0.45 min
 Lab File: VL034521.D
 Acq: 30 Dec 2019 21:09

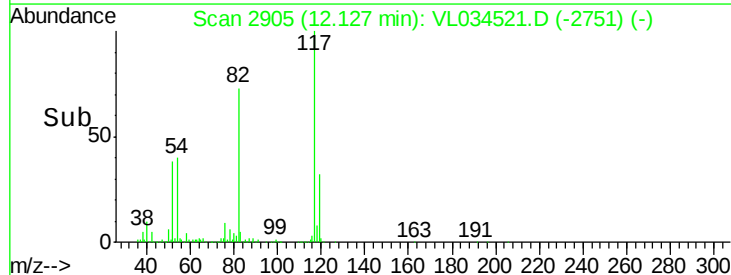
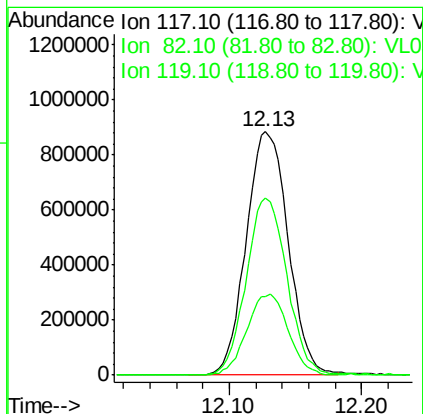
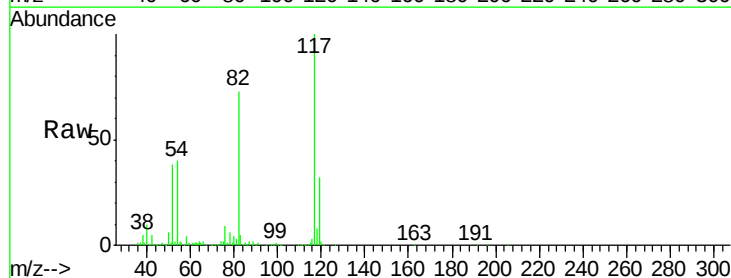
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

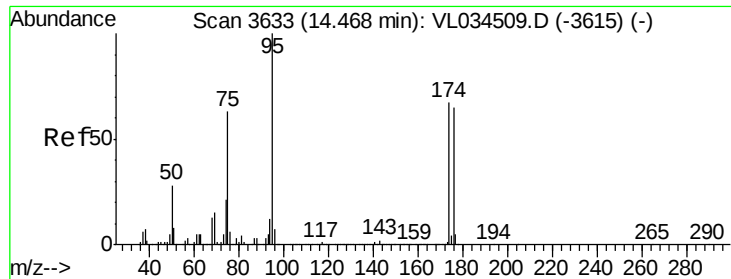
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	66.1	99.1#
62	19.2	54.9	82.3#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.13 min Scan# 2905
 Delta R.T. -0.01 min
 Lab File: VL034521.D
 Acq: 30 Dec 2019 21:09

Tgt Ion	Ratio	Lower	Upper
117	100		
82	71.1	56.2	84.4
119	33.1	27.1	40.7





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.044 ppbv
 RT: 14.46 min Scan# 3631
 Delta R.T. -0.01 min
 Lab File: VL034521.D
 Acq: 30 Dec 2019 21:09

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

Tgt Ion: 95 Resp: 1631026
 Ion Ratio Lower Upper
 95 100
 174 63.9 52.4 78.6
 175 4.7 3.9 5.9

