

Data File : VL032556.D
Acq On : 27 Sep 2018 19:28
Operator : SY/AP
Sample : J5136-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
247DL

Quant Time: Sep 28 02:09:19 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 05:17:15 2018
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1454112	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3159962	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3391292	10.00	ppbv	-0.03

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.61 95 2384172 9.32 ppbv -0.03
Spiked Amount 10.000 Range 65 - 135 Recovery = 93.20%

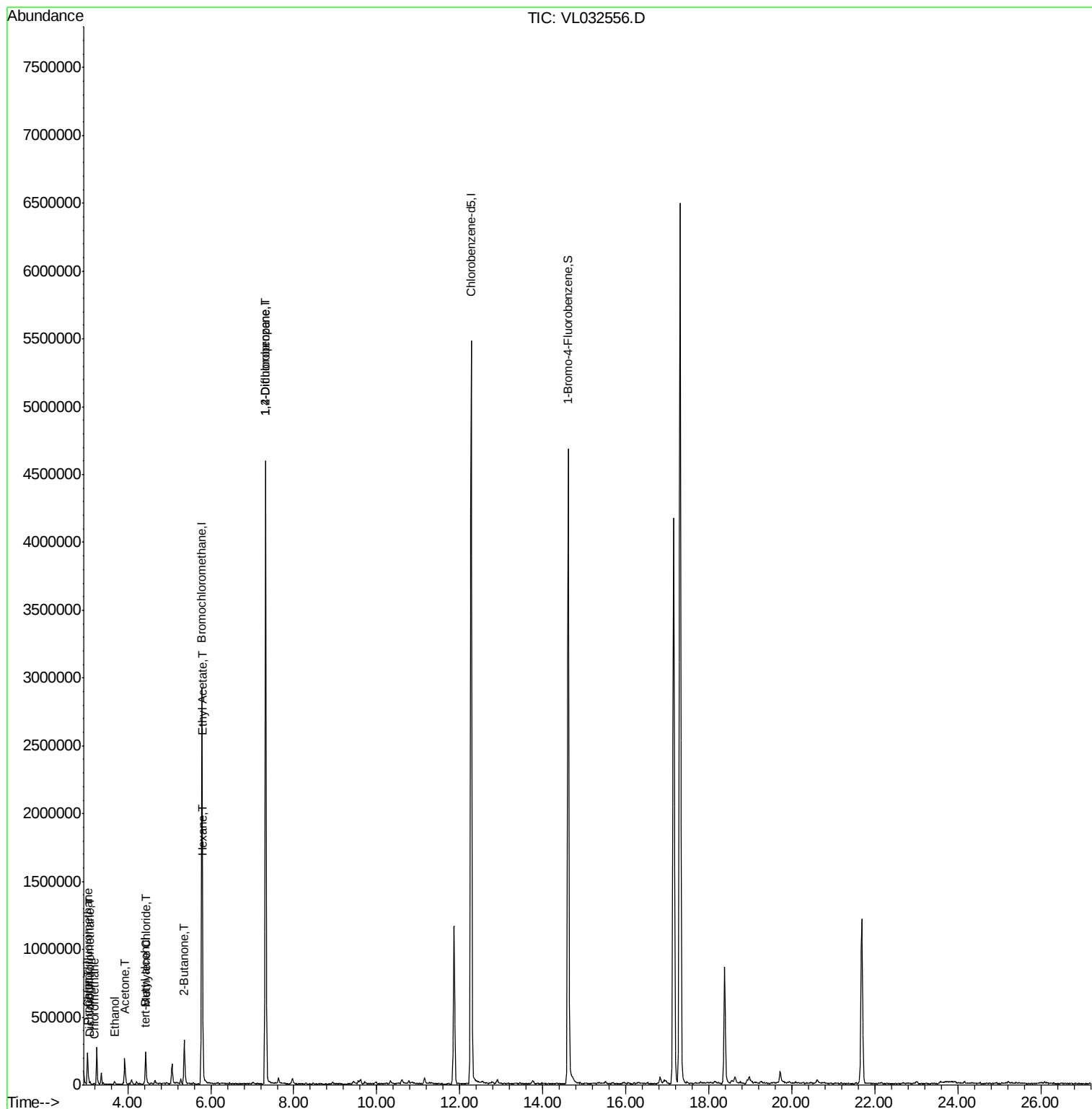
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	10864	0.081	ppbv #	76
3) Chlorodifluoromethane	3.03	51	215184	1.780	ppbv	98
4) Chloromethane	3.19	50	3396	0.048	ppbv #	84
9) Propene	3.05	41	16685	0.318	ppbv	93
13) Ethanol	3.68	45	11235	0.712	ppbv #	47
15) Acetone	3.93	43	174355	1.366	ppbv #	77
17) tert-Butyl alcohol	4.41	59	8694	0.542	ppbv #	100
20) Methylene Chloride	4.44	84	77010	1.246	ppbv	91
25) Ethyl Acetate	5.80	43	23573	0.076	ppbv #	84
26) Hexane	5.81	57	30204	0.216	ppbv #	41
34) 2-Butanone	5.36	43	376764	2.002	ppbv	100
39) 1,2-Dichloropropane	7.32	63	850269	7.388	ppbv #	26

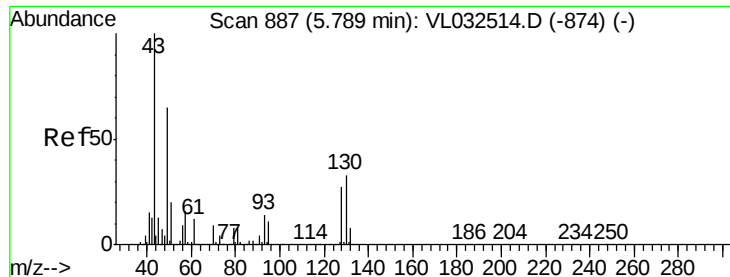
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

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MSVOA_L

ClientSampleId :

247DL

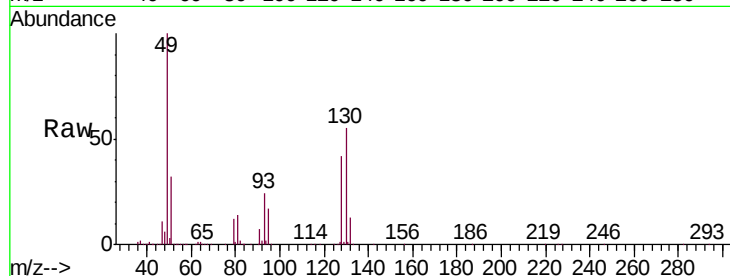
Tgt Ion: 49 Resp: 1454112

Ion Ratio Lower Upper

49 100

128 43.2 20.7 62.1

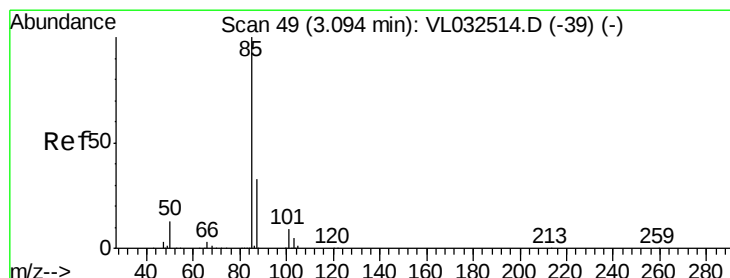
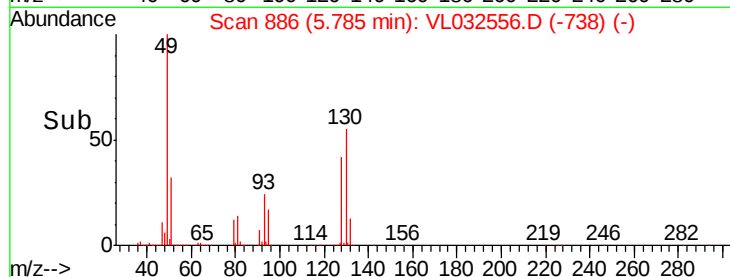
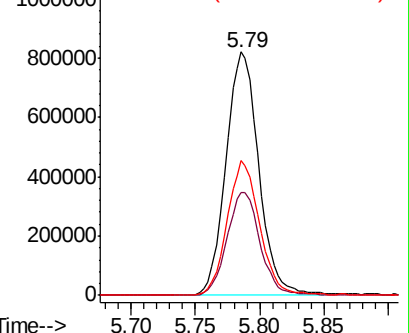
130 55.3 26.6 79.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.081 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL032556.D

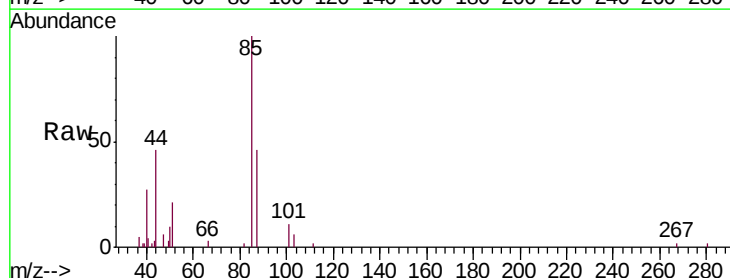
Acq: 27 Sep 2018 19:28

Tgt Ion: 85 Resp: 10864

Ion Ratio Lower Upper

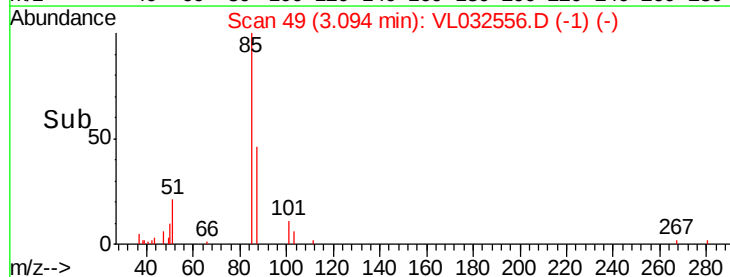
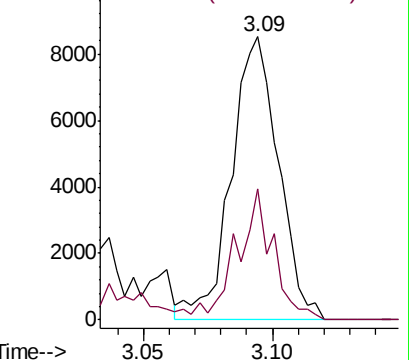
85 100

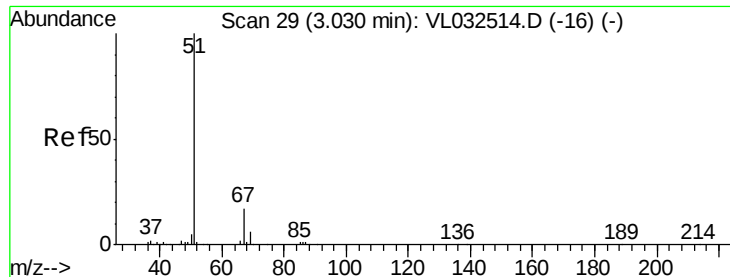
87 46.5 26.2 39.4#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.780 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL032556.D

Acq: 27 Sep 2018 19:28

Instrument :

MSVOA_L

ClientSampleId :

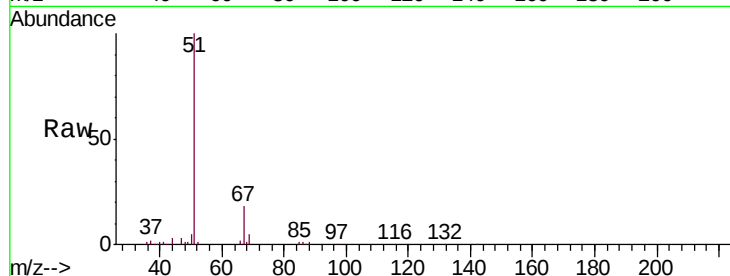
247DL

Tgt Ion: 51 Resp: 215184

Ion Ratio Lower Upper

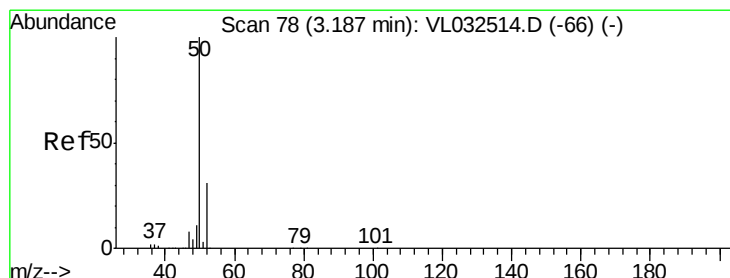
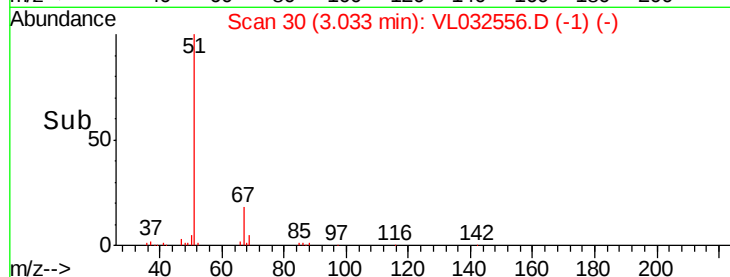
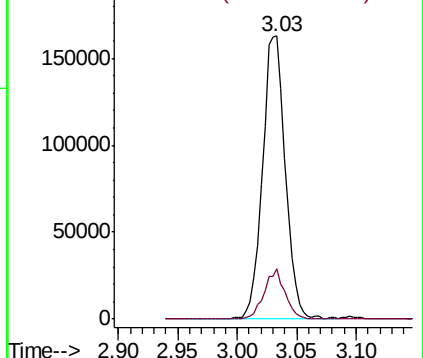
51 100

67 16.2 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.048 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032556.D

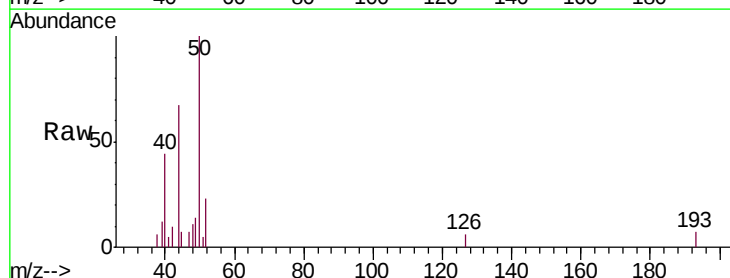
Acq: 27 Sep 2018 19:28

Tgt Ion: 50 Resp: 3396

Ion Ratio Lower Upper

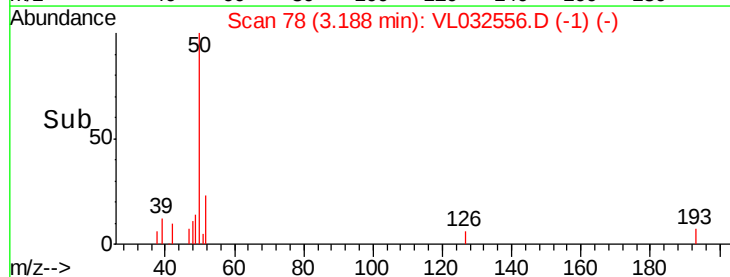
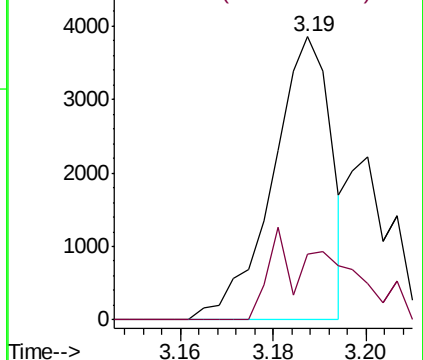
50 100

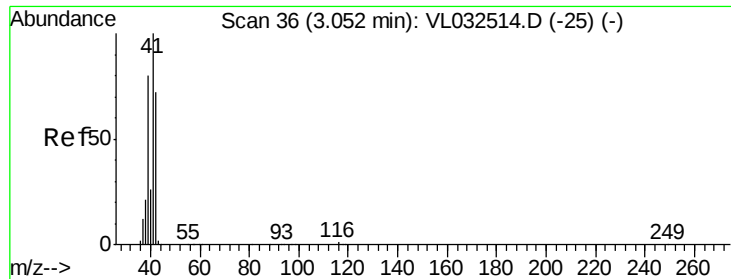
52 23.0 25.6 38.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.318 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

Lab File: VL032556.D

Acq: 27 Sep 2018 19:28

Instrument :

MSVOA_L

ClientSampleId :

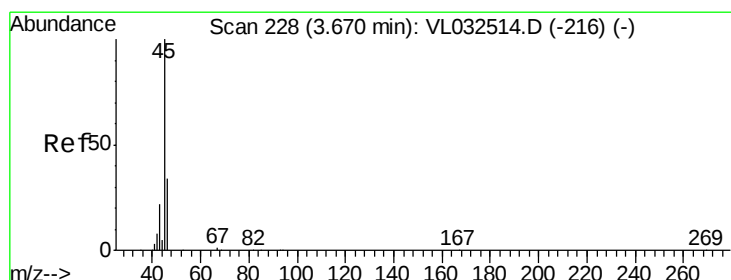
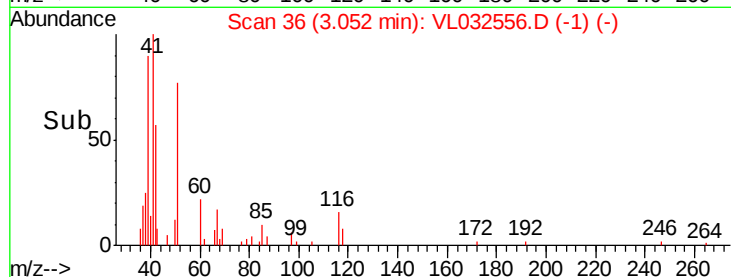
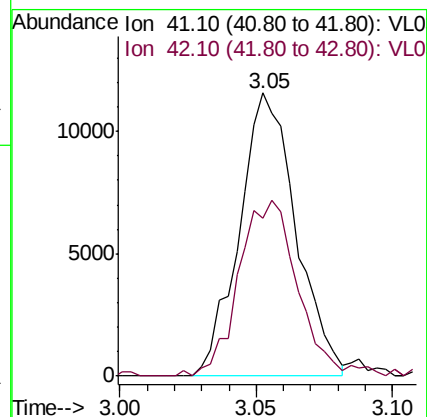
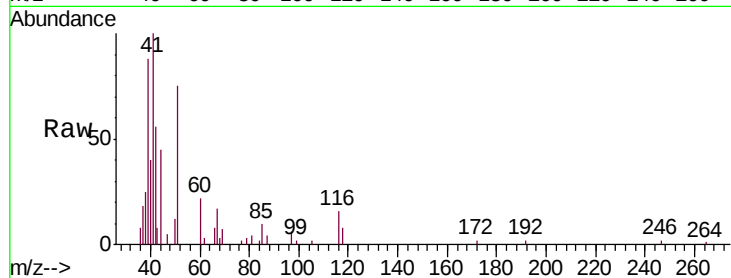
247DL

Tgt Ion: 41 Resp: 16685

Ion Ratio Lower Upper

41 100

42 65.3 56.6 84.8



#13

Ethanol

Concen: 0.712 ppbv

RT: 3.68 min Scan# 231

Delta R.T. -0.01 min

Lab File: VL032556.D

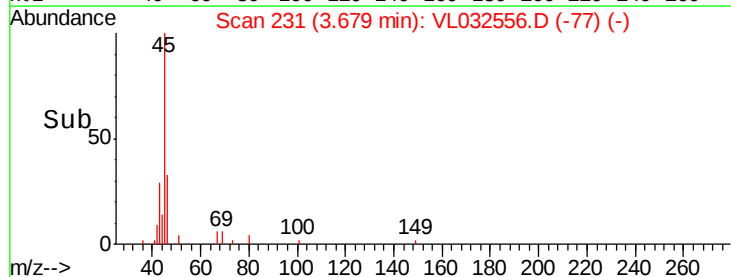
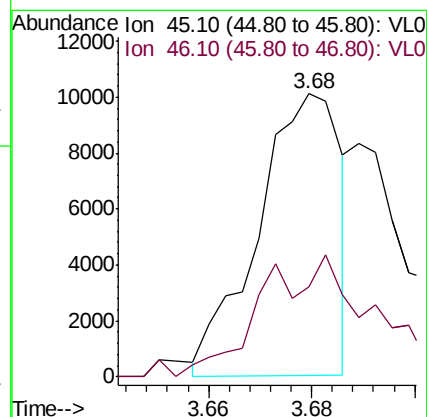
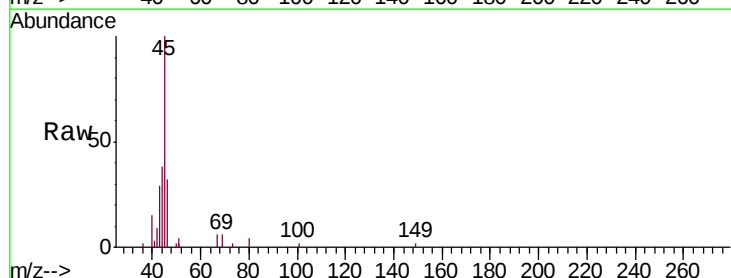
Acq: 27 Sep 2018 19:28

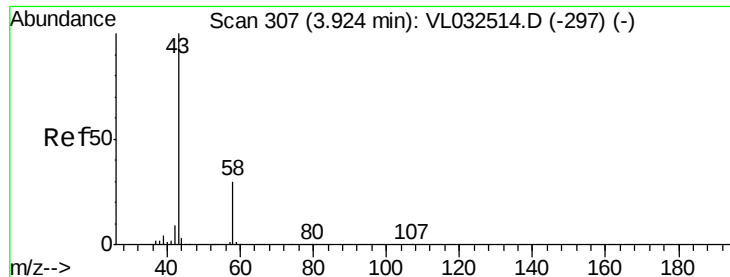
Tgt Ion: 45 Resp: 11235

Ion Ratio Lower Upper

45 100

46 66.6 14.2 56.8#





#15

Acetone

Concen: 1.366 ppbv

RT: 3.93 min Scan# 308

Delta R.T. -0.01 min

Lab File: VL032556.D

Acq: 27 Sep 2018 19:28

Instrument :

MSVOA_L

ClientSampleId :

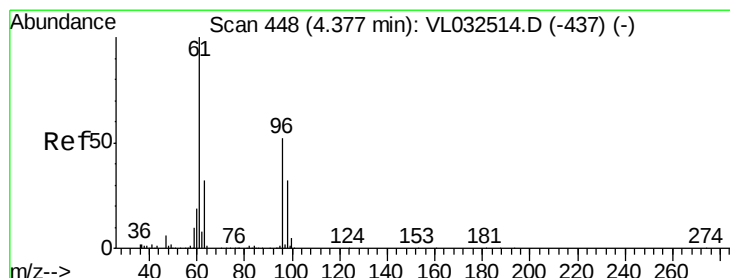
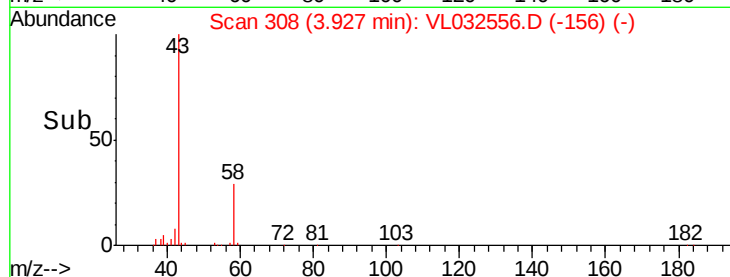
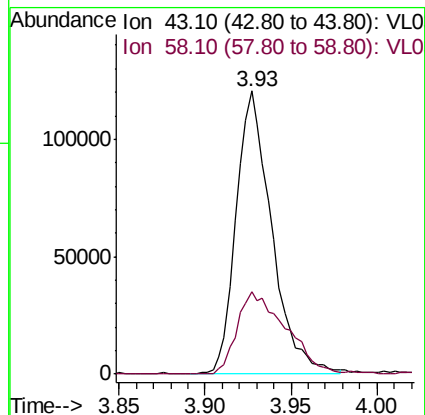
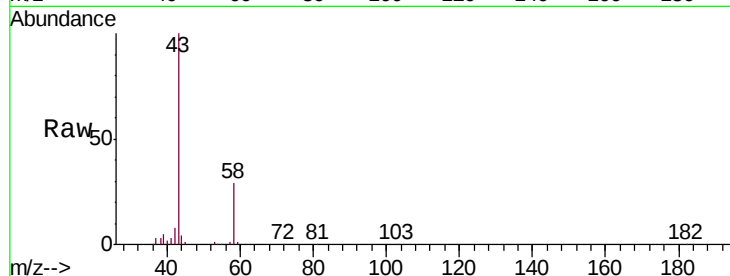
247DL

Tgt Ion: 43 Resp: 174355

Ion Ratio Lower Upper

43 100

58 40.5 22.6 33.8#



#17

tert-Butyl alcohol

Concen: 0.542 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL032556.D

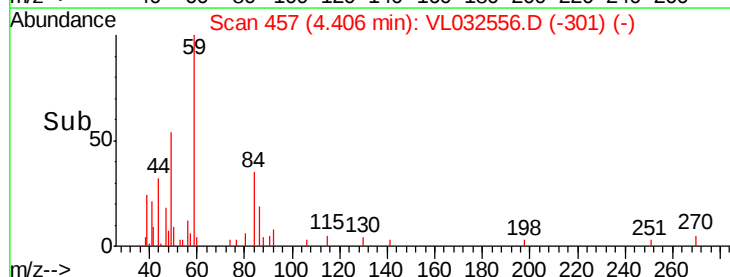
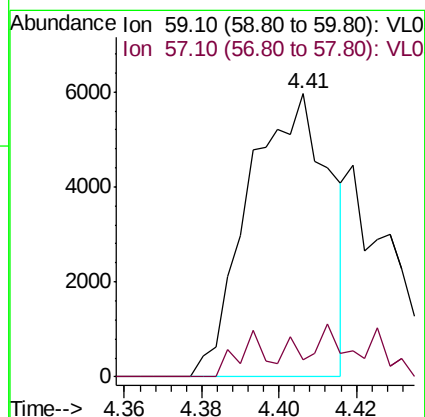
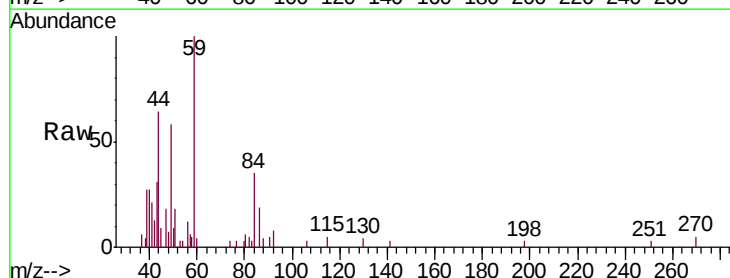
Acq: 27 Sep 2018 19:28

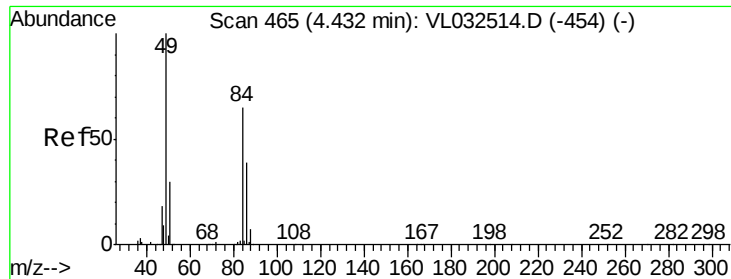
Tgt Ion: 59 Resp: 8694

Ion Ratio Lower Upper

59 100

57 0.0 0.0 0.0

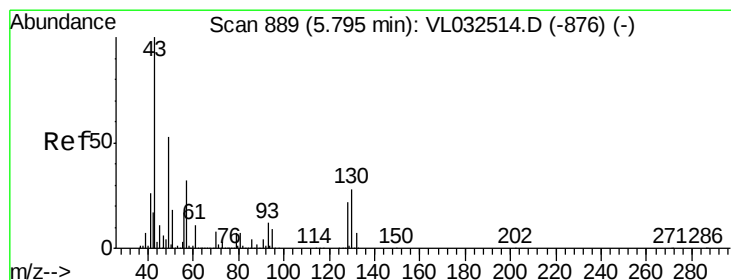
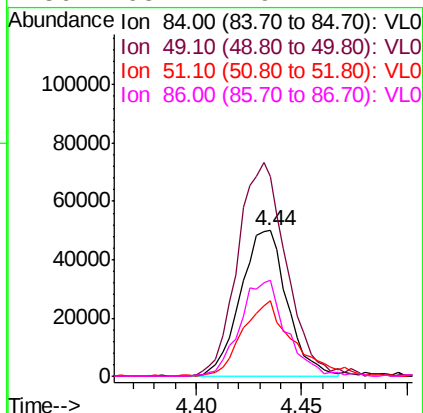
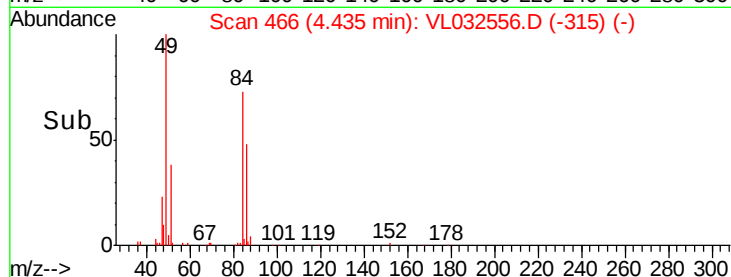
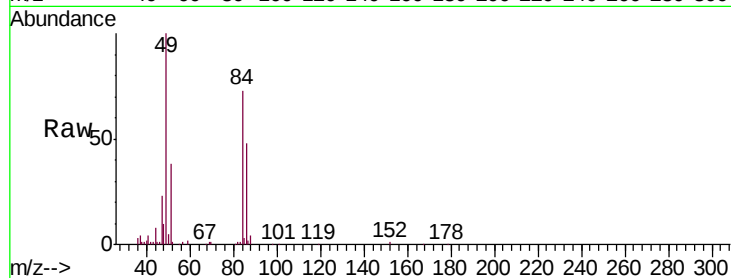




#20
Methylene Chloride
Concen: 1.246 ppbv
RT: 4.44 min Scan# 466
Delta R.T. -0.01 min
Lab File: VL032556.D
Acq: 27 Sep 2018 19:28

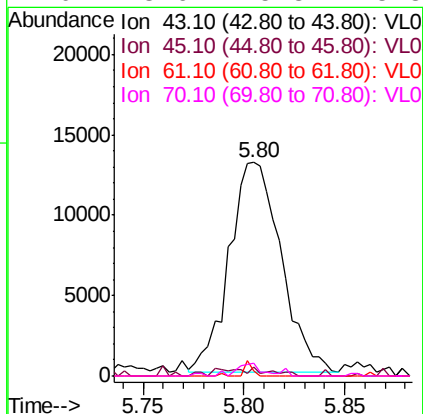
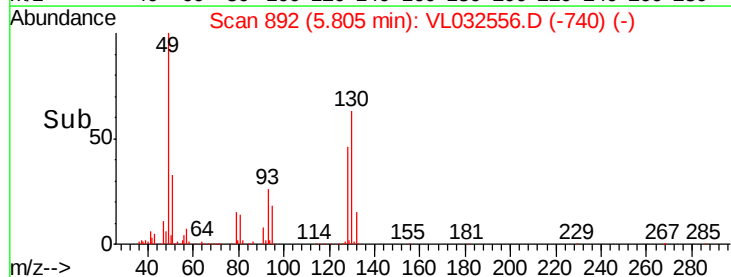
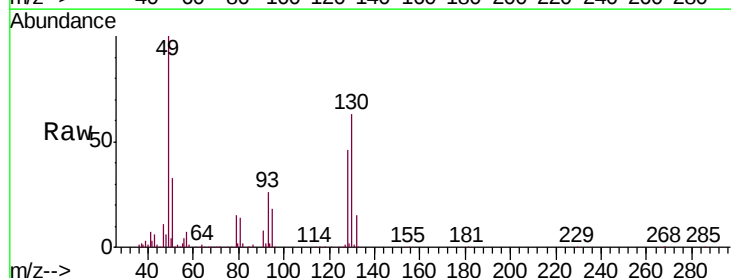
Instrument :
MSVOA_L
ClientSampleID :
247DL

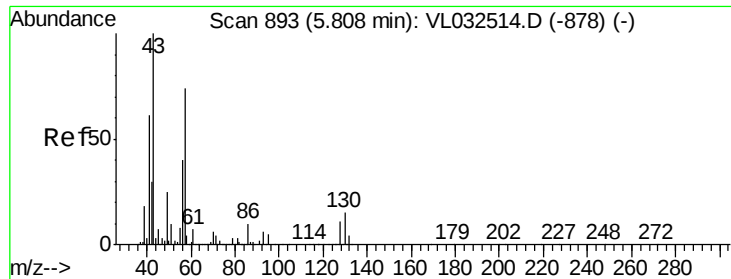
Tgt Ion: 84 Resp: 77010
Ion Ratio Lower Upper
84 100
49 137.3 119.1 178.7
51 51.8 35.2 52.8
86 65.7 49.4 74.2



#25
Ethyl Acetate
Concen: 0.076 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.01 min
Lab File: VL032556.D
Acq: 27 Sep 2018 19:28

Tgt Ion: 43 Resp: 23573
Ion Ratio Lower Upper
43 100
45 4.8 8.0 12.0#
61 1.2 7.6 11.4#
70 3.6 5.8 8.8#





#26

Hexane

Concen: 0.216 ppbv

RT: 5.81 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL032556.D

Acq: 27 Sep 2018 19:28

Instrument :

MSVOA_L

ClientSampled :

247DL

Tgt Ion: 57 Resp: 30204

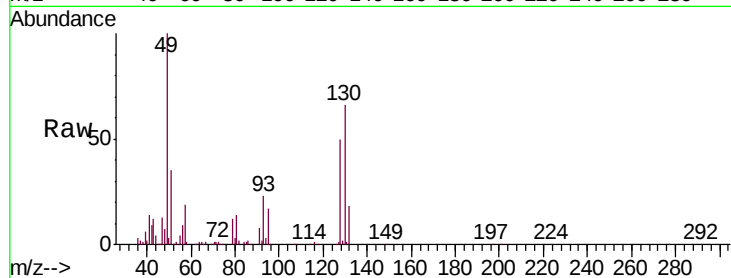
Ion Ratio Lower Upper

57 100

41 99.1 69.0 103.4

43 77.7 172.1 258.1#

56 65.8 42.2 63.2#



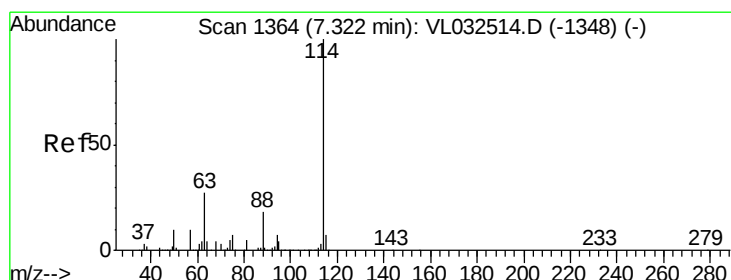
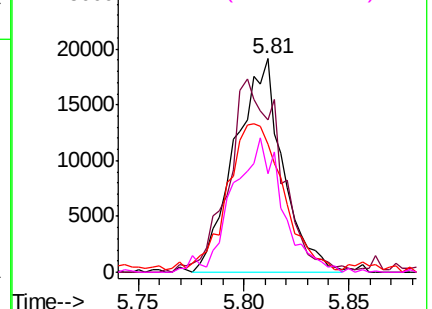
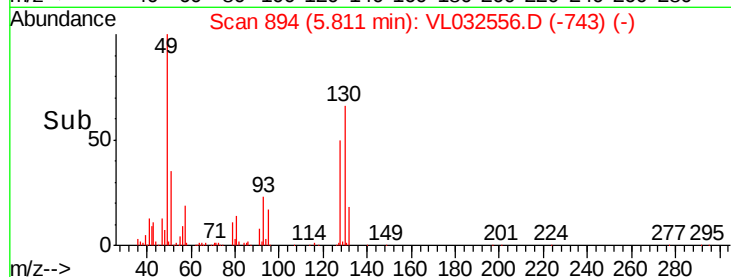
Abundance

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: 7.32 min Scan# 1363

Delta R.T. -0.03 min

Lab File: VL032556.D

Acq: 27 Sep 2018 19:28

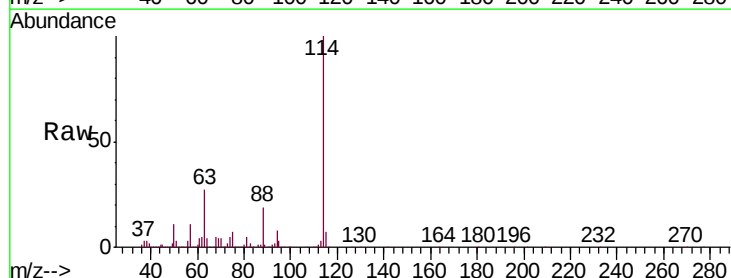
Tgt Ion: 114 Resp: 3159962

Ion Ratio Lower Upper

114 100

63 27.0 22.2 33.4

88 18.8 15.0 22.4

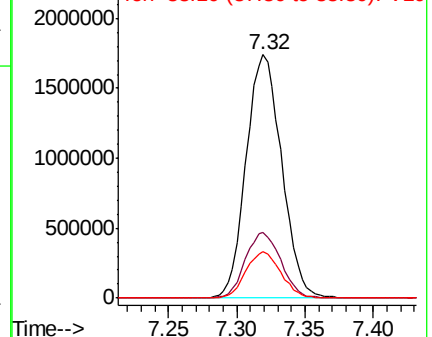
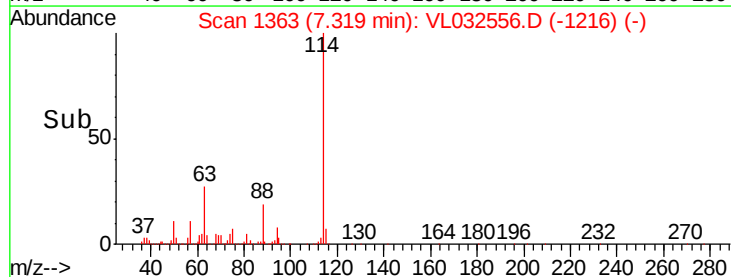


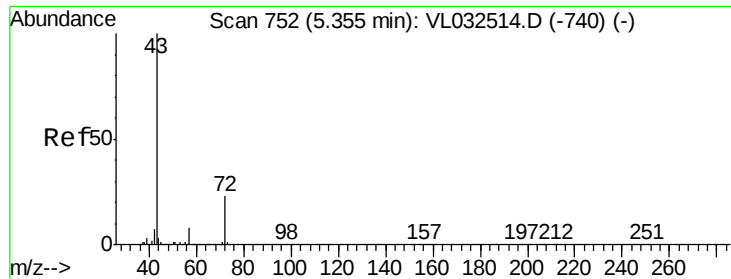
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

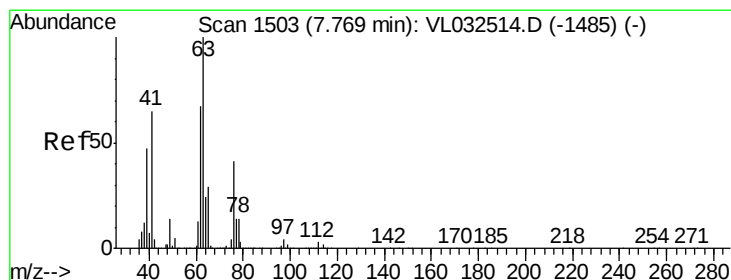
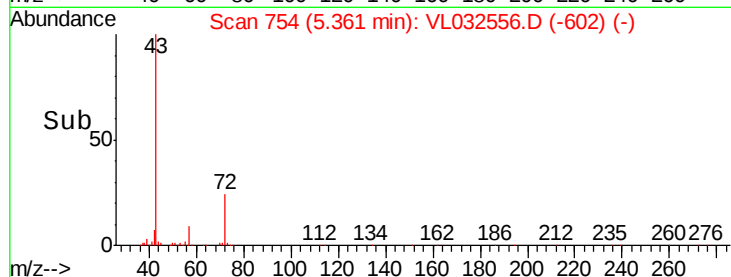
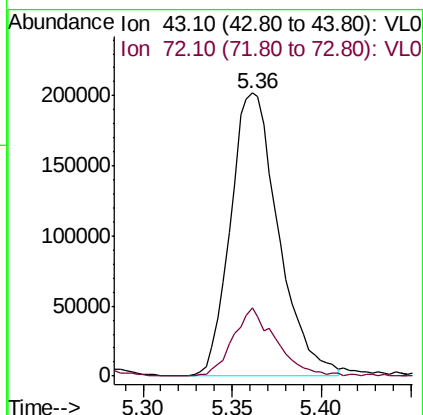
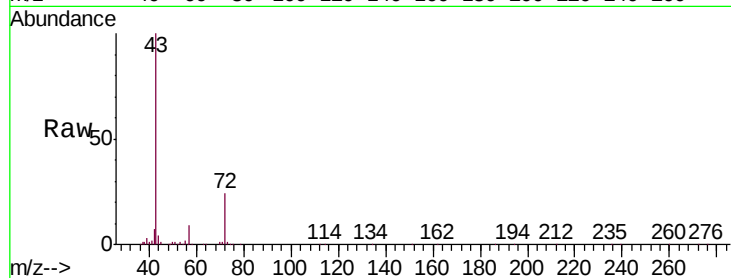




#34
2-Butanone
Concen: 2.002 ppbv
RT: 5.36 min Scan# 754
Delta R.T. -0.01 min
Lab File: VL032556.D
Acq: 27 Sep 2018 19:28

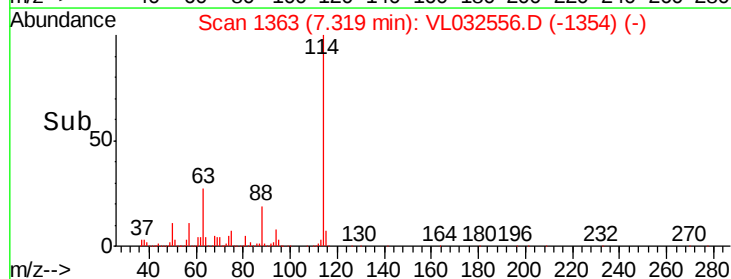
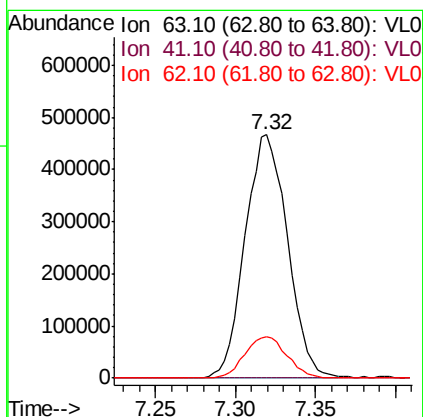
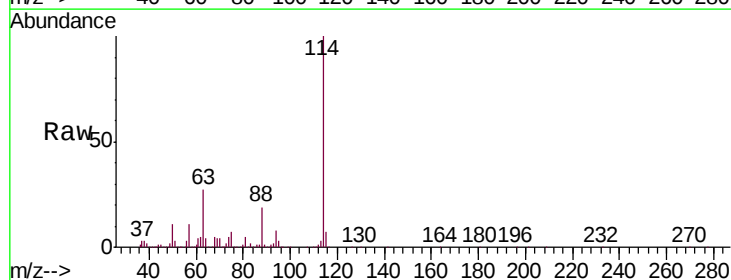
Instrument :
MSVOA_L
ClientSampleId :
247DL

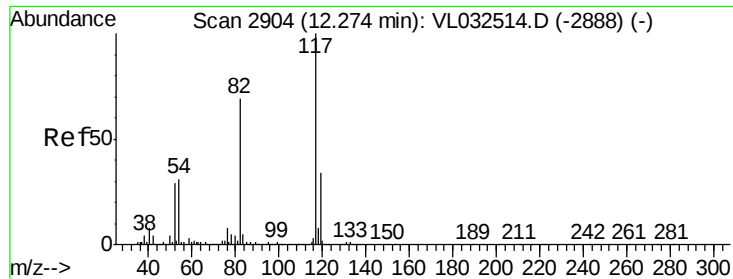
Tgt Ion: 43 Resp: 376764
Ion Ratio Lower Upper
43 100
72 22.2 17.8 26.6



#39
1,2-Dichloropropane
Concen: 7.388 ppbv
RT: 7.32 min Scan# 1363
Delta R.T. -0.47 min
Lab File: VL032556.D
Acq: 27 Sep 2018 19:28

Tgt Ion: 63 Resp: 850269
Ion Ratio Lower Upper
63 100
41 0.2 55.4 83.0#
62 16.8 55.4 83.0#

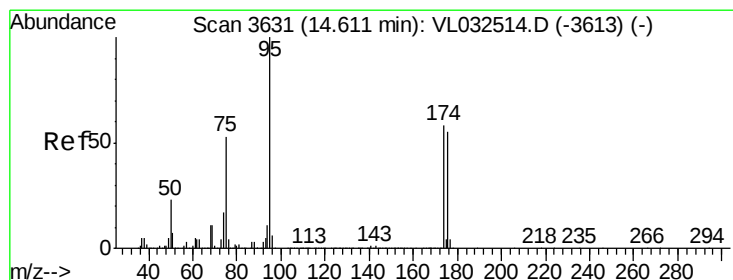
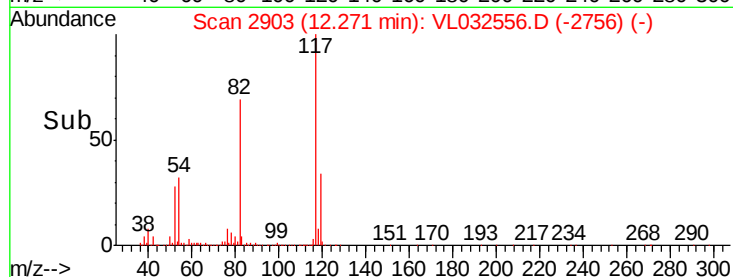
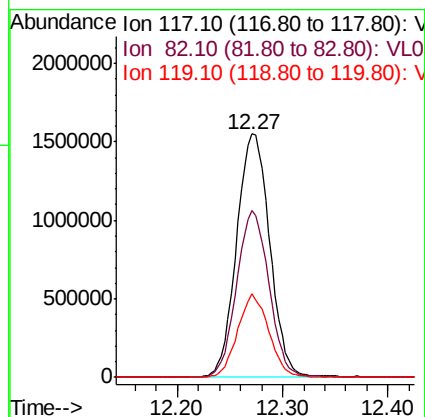
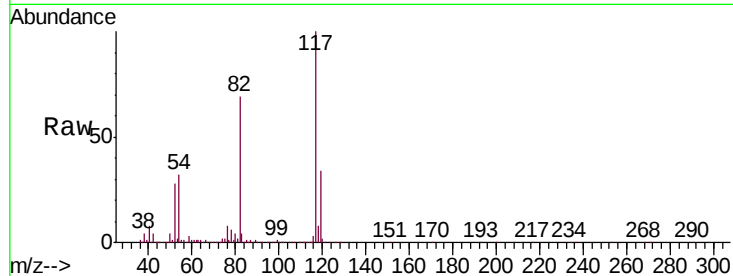




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2903
Delta R.T. -0.03 min
Lab File: VL032556.D
Acq: 27 Sep 2018 19:28

Instrument :
MSVOA_L
ClientSampled :
247DL

Tgt Ion:117 Resp: 3391292
Ion Ratio Lower Upper
117 100
82 67.7 53.0 79.6
119 32.6 45.9 68.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.323 ppbv
RT: 14.61 min Scan# 3630
Delta R.T. -0.03 min
Lab File: VL032556.D
Acq: 27 Sep 2018 19:28

Tgt Ion: 95 Resp: 2384172
Ion Ratio Lower Upper
95 100
174 57.4 46.3 69.5
175 4.0 3.4 5.0

