

Data File : VL032897.D
Acq On : 5 Dec 2018 4:35
Operator : SY/AP
Sample : J6177-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSV-4DL

Quant Time: Dec 05 05:54:09 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1435767	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3485127	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3624107	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2628981	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	10814	0.052	ppbv #	83
3) Chlorodifluoromethane	3.02	51	29834	0.262	ppbv	93
4) Chloromethane	3.17	50	2355	0.037	ppbv	97
9) Propene	3.04	41	53462	1.174	ppbv	98
13) Ethanol	3.66	45	161581	10.830	ppbv	98
15) Acetone	3.91	43	237362	1.810	ppbv #	70
16) 1,3-Butadiene	3.35	39	76442	1.505	ppbv #	15
17) tert-Butyl alcohol	4.38	59	1278	0.031	ppbv #	73
19) Isopropyl Alcohol	4.07	45	3010	0.034	ppbv #	95
20) Methylene Chloride	4.41	84	14416	0.212	ppbv	90
25) Ethyl Acetate	5.78	43	20189	0.066	ppbv #	89
26) Hexane	5.78	57	24756	0.182	ppbv #	45
27) Carbon Disulfide	4.62	76	47421	0.275	ppbv #	76
34) 2-Butanone	5.34	43	630139	3.486	ppbv	100
39) 1,2-Dichloropropane	7.29	63	810982	7.670	ppbv #	23
58) Ethyl Benzene	12.87	91	32550	0.075	ppbv	99
59) m/p-Xylene	13.13	91	37279	0.096	ppbv #	1
60) o-Xylene	13.85	91	35999	0.092	ppbv	84

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

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VSV-4DL

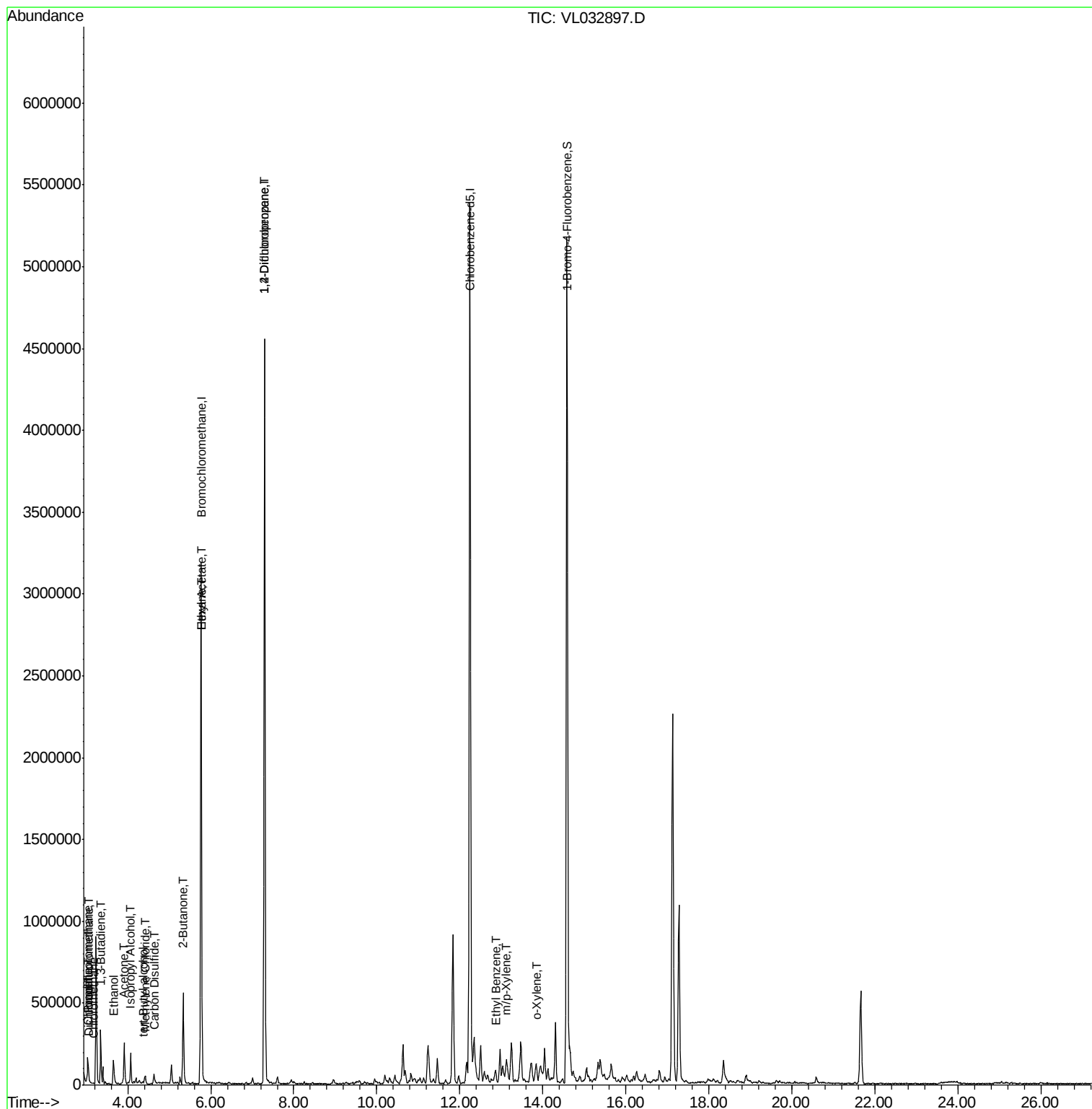
Quant Time: Dec 05 05:54:09 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 07:00:23 2018

QLast Update : Wed Nov 14 07:00:23 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

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MSVOA_L

ClientSampleId :

VSV-4DL

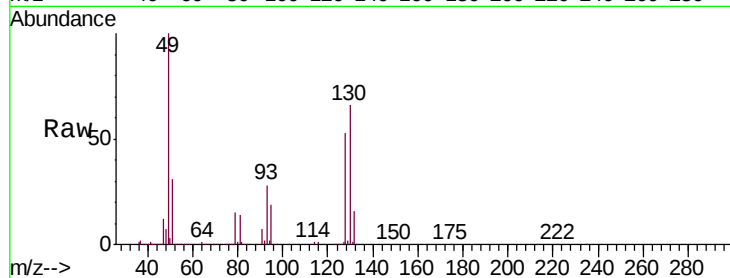
Tgt Ion: 49 Resp: 1435767

Ion Ratio Lower Upper

49 100

128 52.9 24.9 74.6

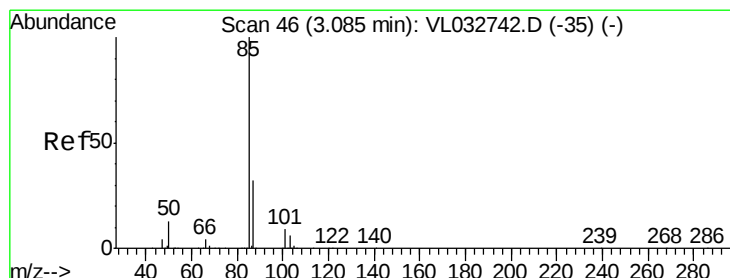
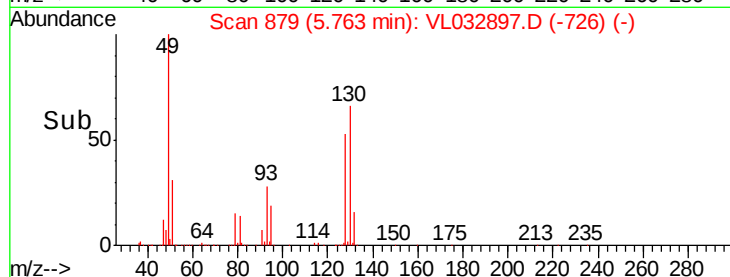
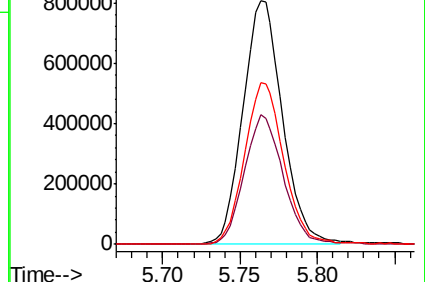
130 66.3 31.4 94.2



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: 0.052 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032897.D

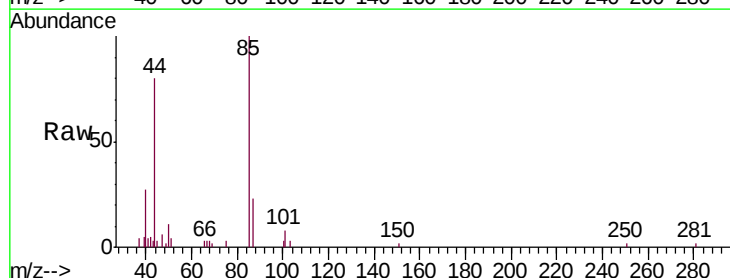
Acq: 5 Dec 2018 4:35

Tgt Ion: 85 Resp: 10814

Ion Ratio Lower Upper

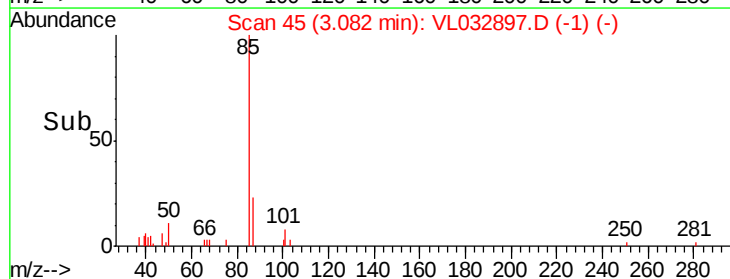
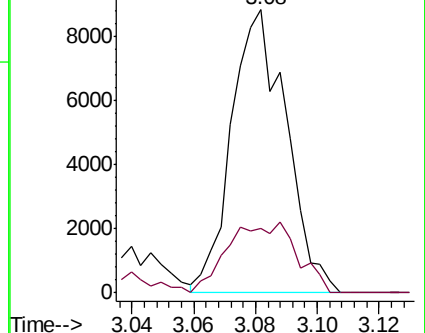
85 100

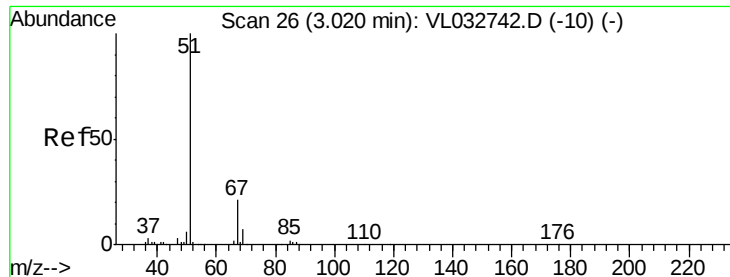
87 22.8 26.0 39.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.262 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL032897.D

Acq: 5 Dec 2018 4:35

Instrument :

MSVOA_L

ClientSampleId :

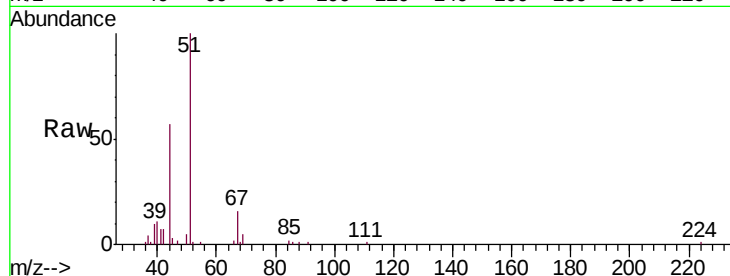
VSV-4DL

Tgt Ion: 51 Resp: 29834

Ion Ratio Lower Upper

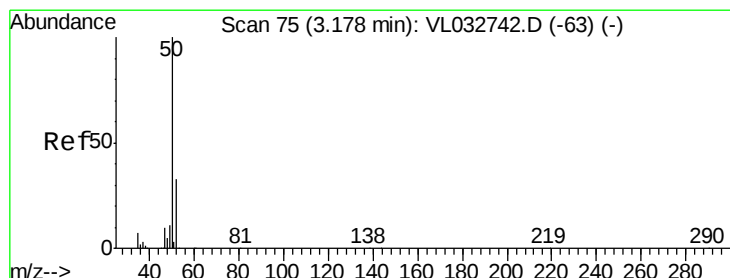
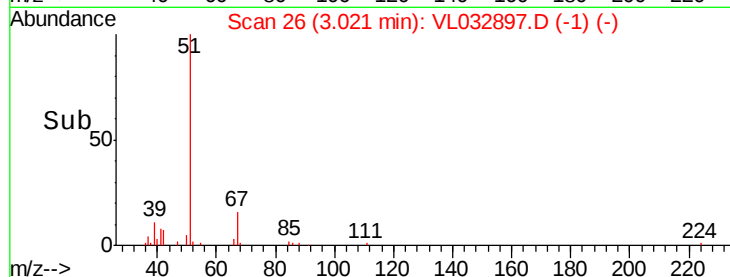
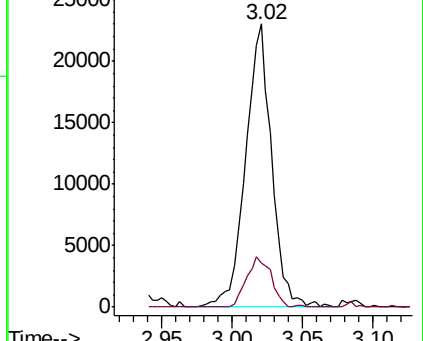
51 100

67 16.9 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.037 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032897.D

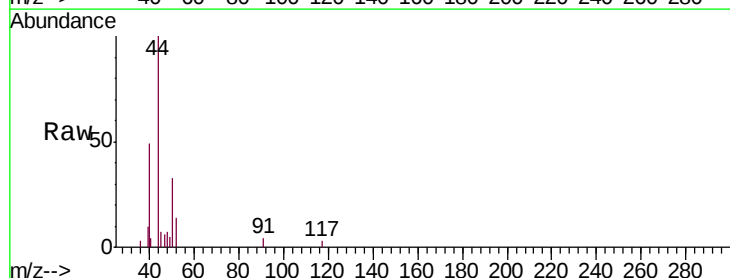
Acq: 5 Dec 2018 4:35

Tgt Ion: 50 Resp: 2355

Ion Ratio Lower Upper

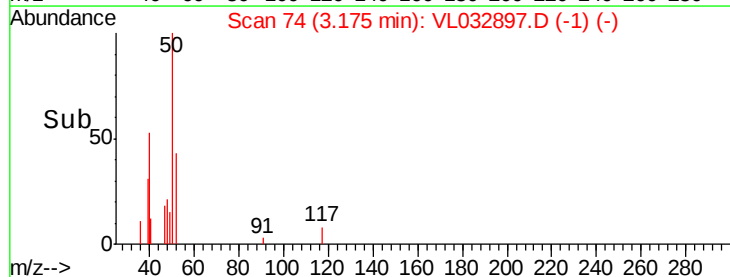
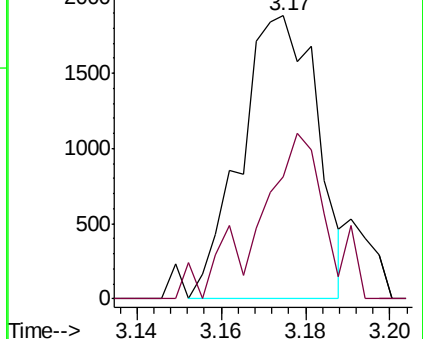
50 100

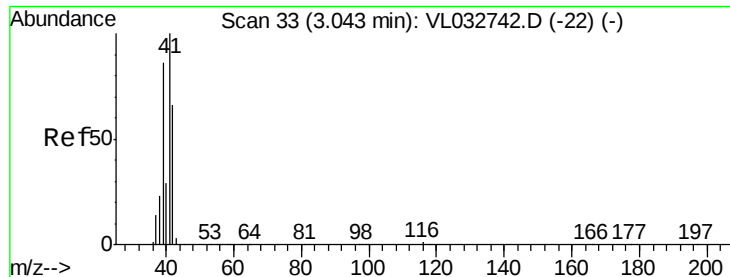
52 35.2 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.174 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL032897.D

Acq: 5 Dec 2018 4:35

Instrument :

MSVOA_L

ClientSampleId :

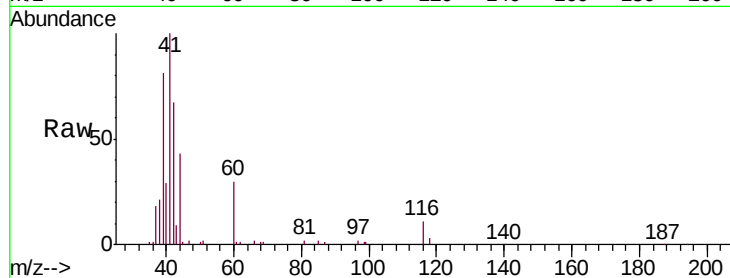
VSV-4DL

Tgt Ion: 41 Resp: 53462

Ion Ratio Lower Upper

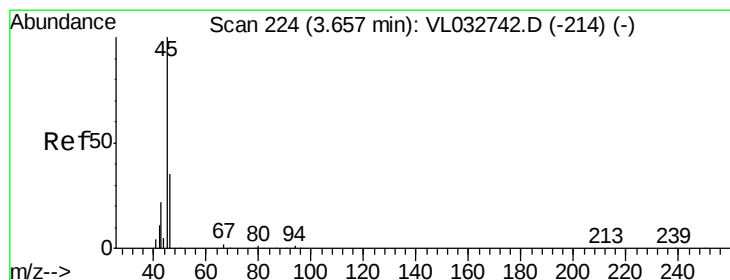
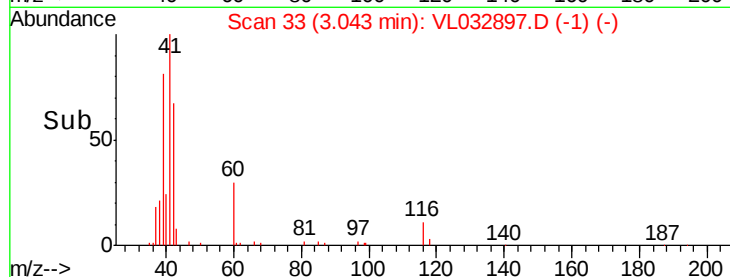
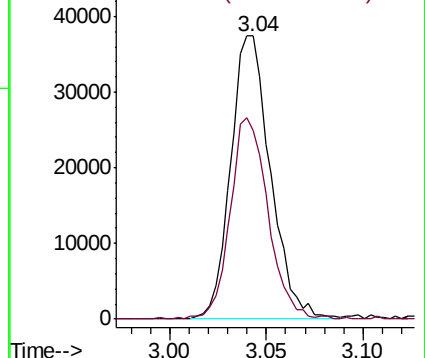
41 100

42 67.5 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 10.830 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.00 min

Lab File: VL032897.D

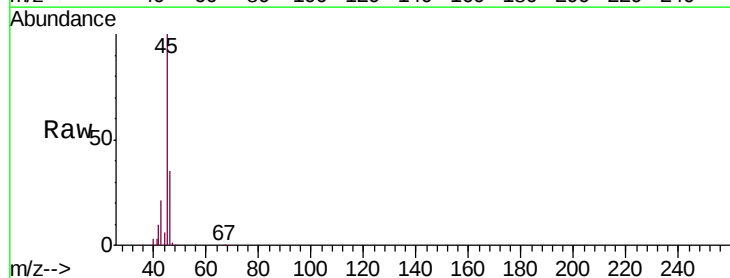
Acq: 5 Dec 2018 4:35

Tgt Ion: 45 Resp: 161581

Ion Ratio Lower Upper

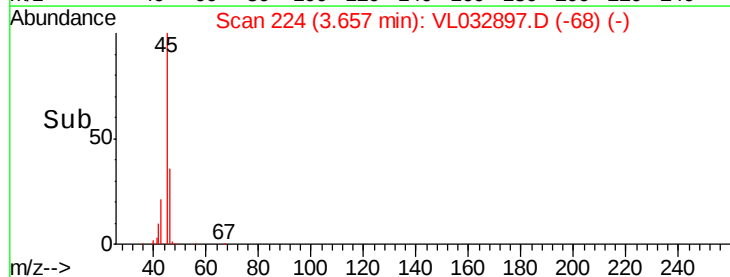
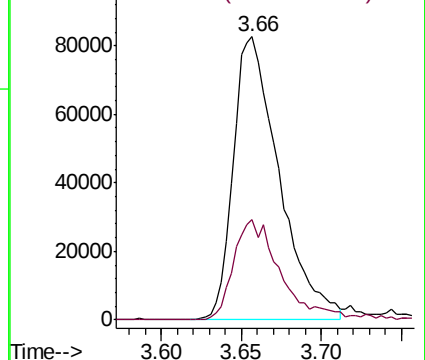
45 100

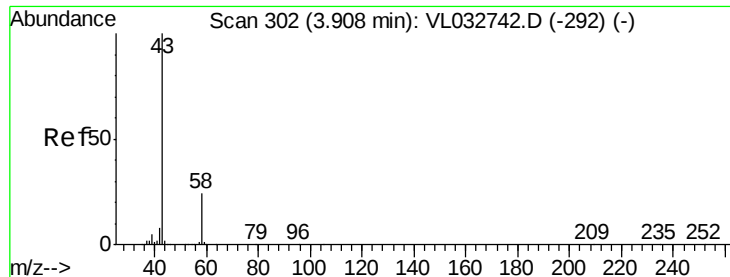
46 37.2 14.5 57.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.810 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.00 min

Lab File: VL032897.D

Acq: 5 Dec 2018 4:35

Instrument :

MSVOA_L

ClientSampleId :

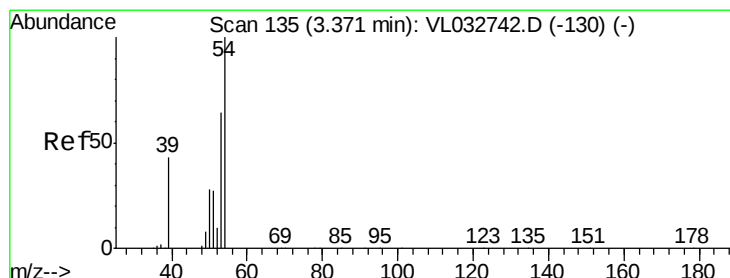
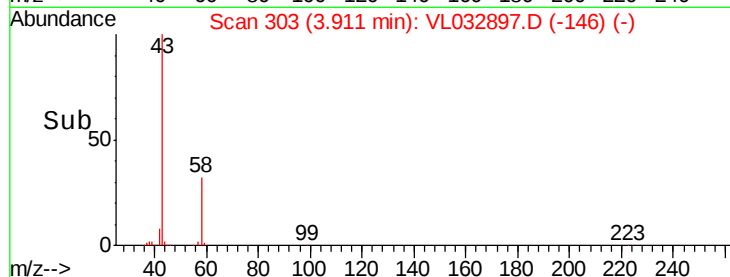
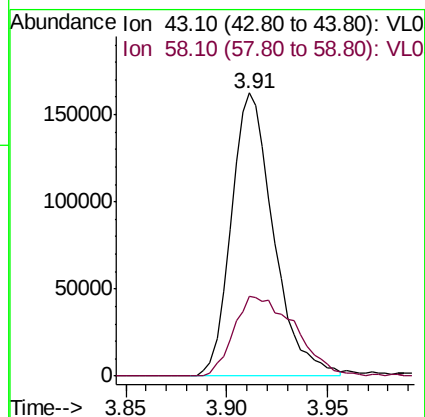
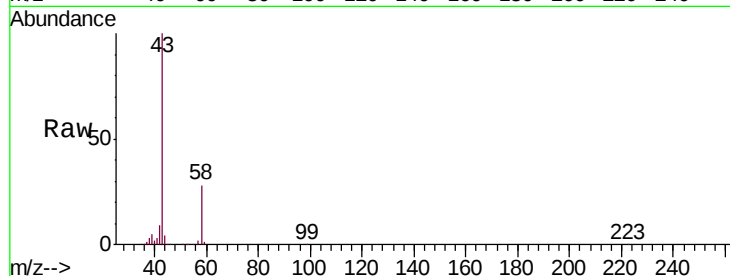
VSV-4DL

Tgt Ion: 43 Resp: 237362

Ion Ratio Lower Upper

43 100

58 41.9 21.1 31.7#



#16

1,3-Butadiene

Concen: 1.505 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.02 min

Lab File: VL032897.D

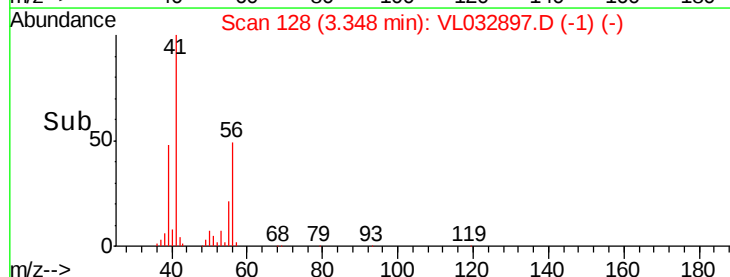
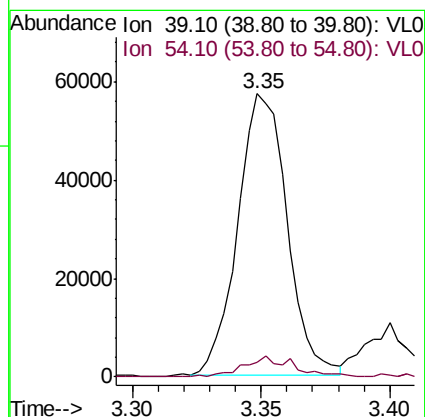
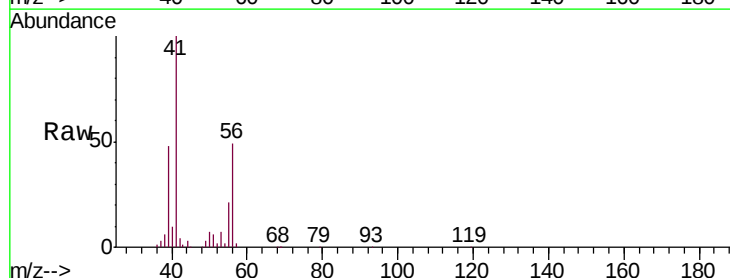
Acq: 5 Dec 2018 4:35

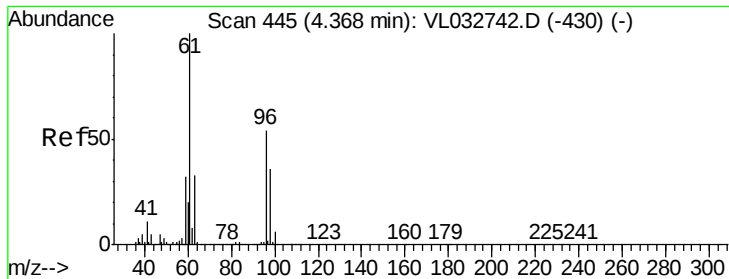
Tgt Ion: 39 Resp: 76442

Ion Ratio Lower Upper

39 100

54 7.9 68.9 103.3#



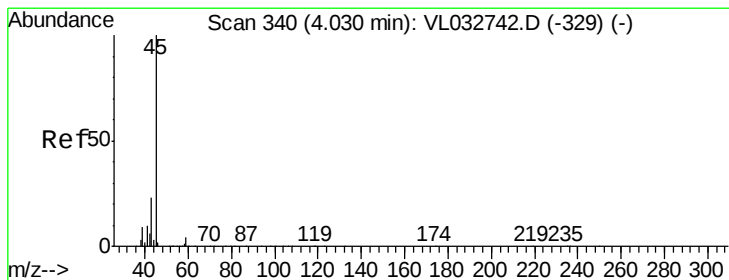
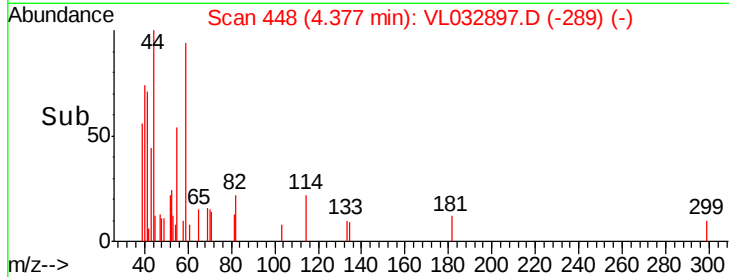
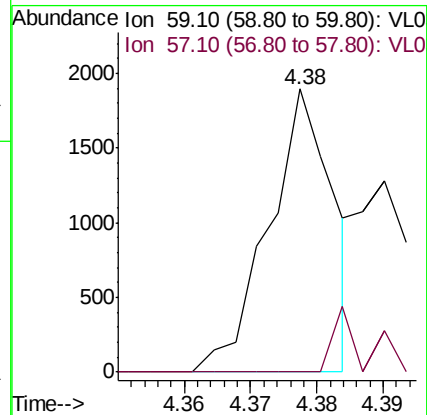
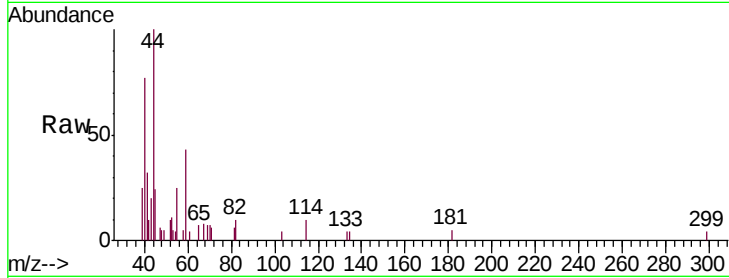


#17

tert-Butyl alcohol
 Concen: 0.031 ppbv
 RT: 4.38 min Scan# 448
 Delta R.T. 0.01 min
 Lab File: VL032897.D
 Acq: 5 Dec 2018 4:35

Instrument :
 MSVOA_L
 ClientSampled :
 VSV-4DL

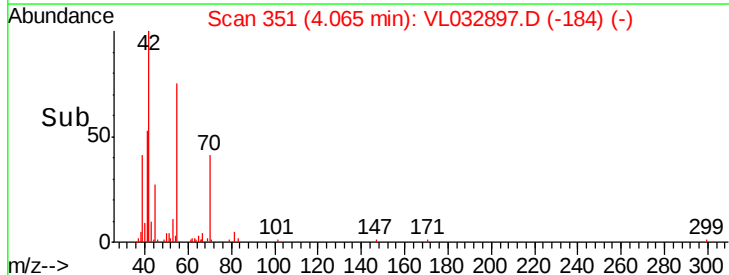
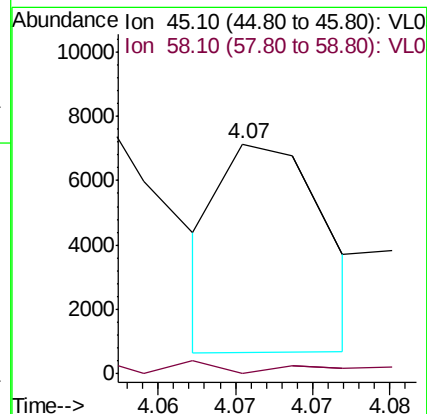
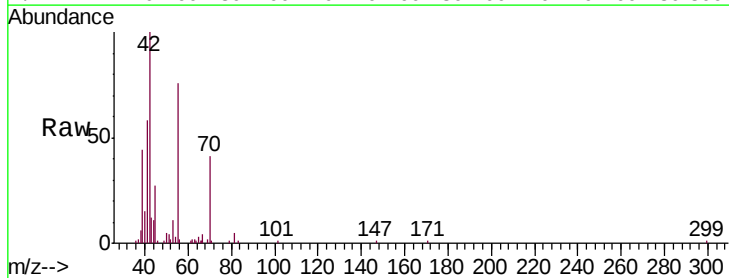
Tgt Ion: 59 Resp: 1278
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

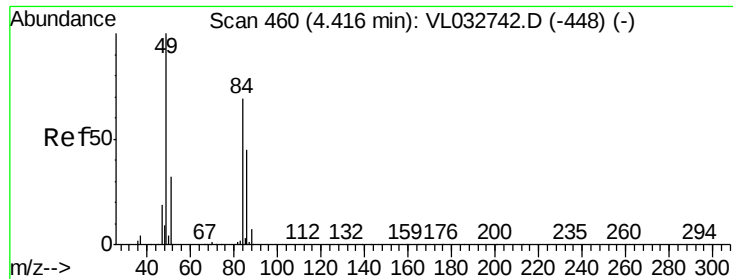


#19

Isopropyl Alcohol
 Concen: 0.034 ppbv
 RT: 4.07 min Scan# 351
 Delta R.T. 0.04 min
 Lab File: VL032897.D
 Acq: 5 Dec 2018 4:35

Tgt Ion: 45 Resp: 3010
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.0#

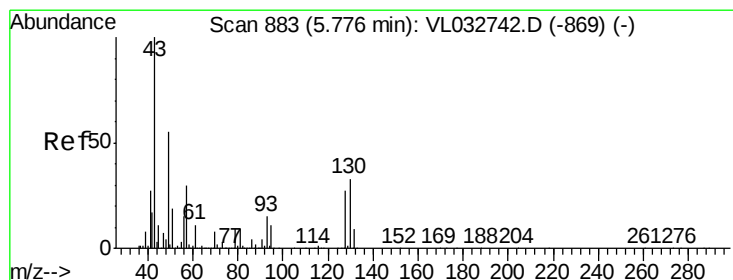
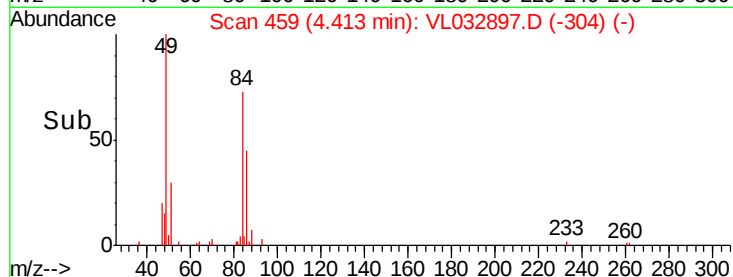
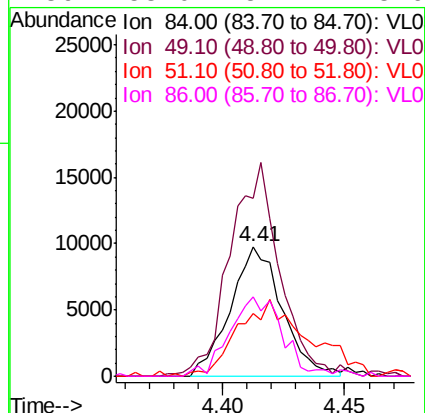
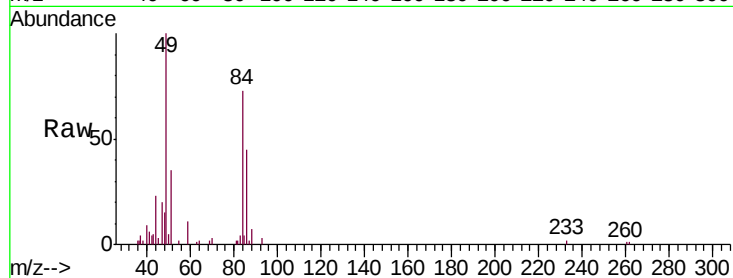




#20
Methylene Chloride
Concen: 0.212 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL032897.D
Acq: 5 Dec 2018 4:35

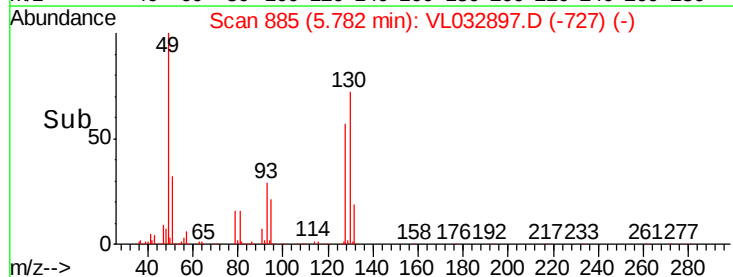
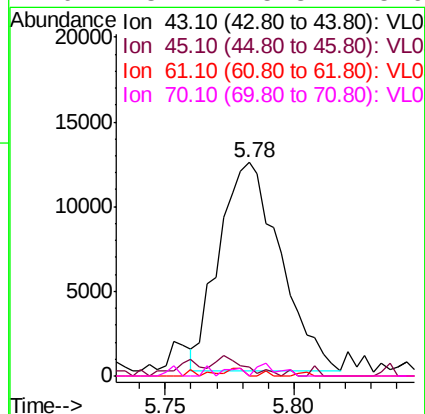
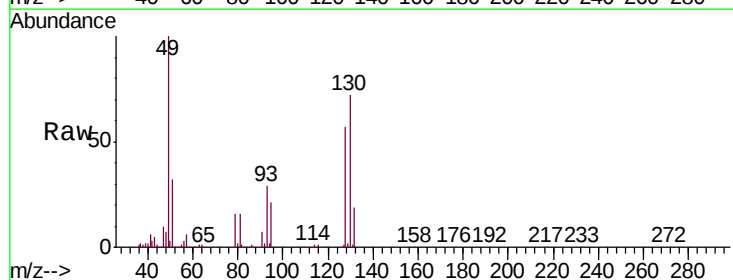
Instrument :
MSVOA_L
ClientSampleId :
VSV-4DL

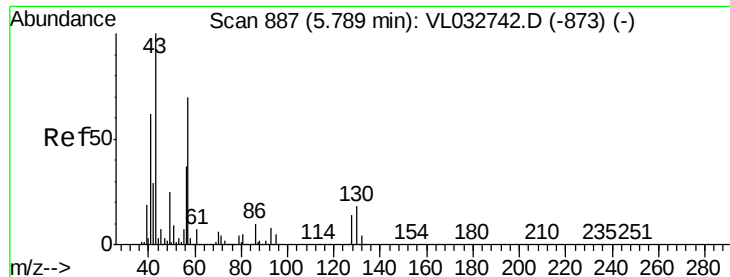
Tgt Ion:	84	Resp:	14416
Ion	Ratio	Lower	Upper
84	100		
49	128.7	115.8	173.6
51	45.6	36.9	55.3
86	58.0	52.4	78.6



#25
Ethyl Acetate
Concen: 0.066 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.01 min
Lab File: VL032897.D
Acq: 5 Dec 2018 4:35

Tgt Ion:	43	Resp:	20189
Ion	Ratio	Lower	Upper
43	100		
45	10.2	7.9	11.9
61	2.4	7.8	11.6#
70	3.2	5.8	8.6#

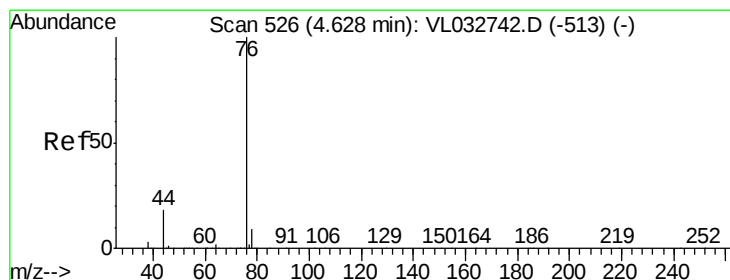
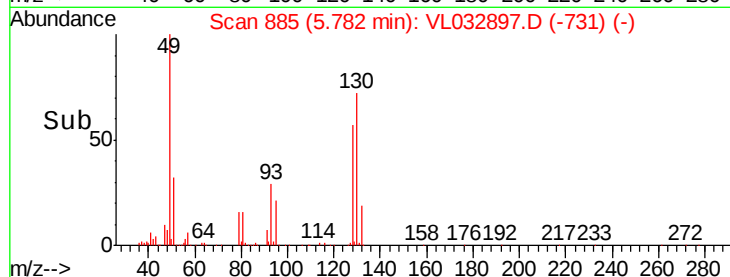
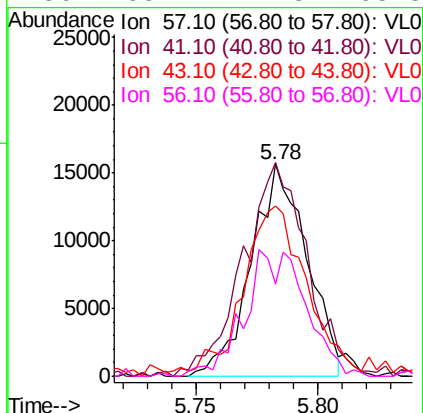
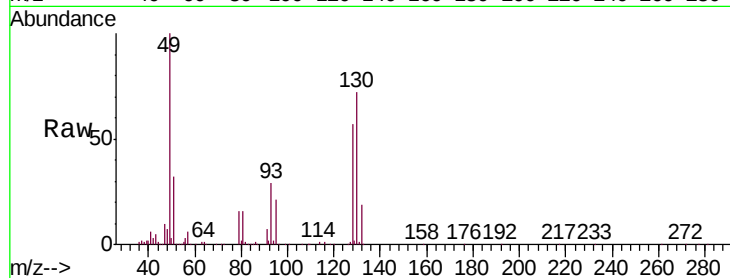




#26
Hexane
Concen: 0.182 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.01 min
Lab File: VL032897.D
Acq: 5 Dec 2018 4:35

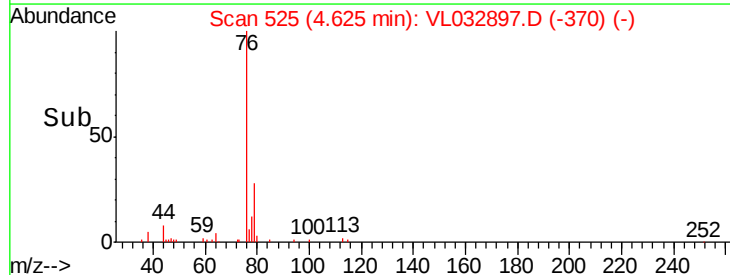
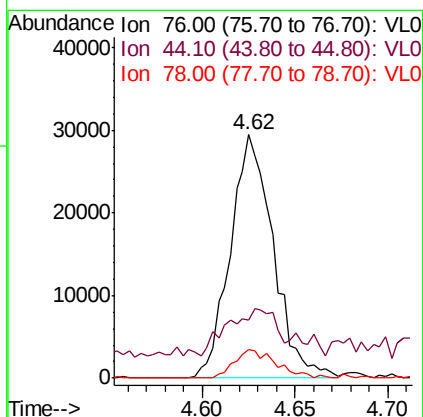
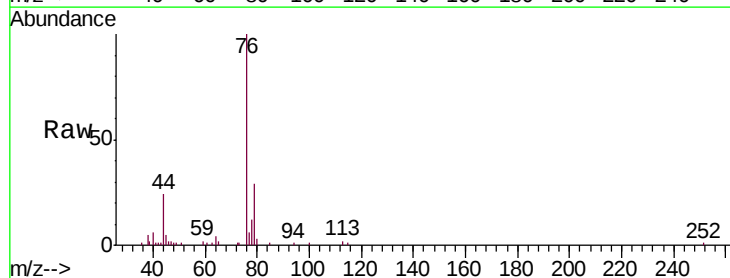
Instrument :
MSVOA_L
ClientSampleID :
VSV-4DL

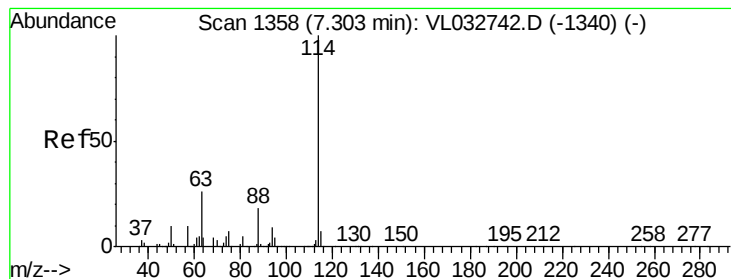
Tgt Ion: 57 Resp: 24756
Ion Ratio Lower Upper
57 100
41 117.9 70.3 105.5#
43 99.5 174.0 261.0#
56 65.4 42.3 63.5#



#27
Carbon Disulfide
Concen: 0.275 ppbv
RT: 4.62 min Scan# 525
Delta R.T. -0.00 min
Lab File: VL032897.D
Acq: 5 Dec 2018 4:35

Tgt Ion: 76 Resp: 47421
Ion Ratio Lower Upper
76 100
44 33.2 14.4 21.6#
78 11.4 7.7 11.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL032897.D

Acq: 5 Dec 2018 4:35

Instrument :

MSVOA_L

ClientSampleId :

VSV-4DL

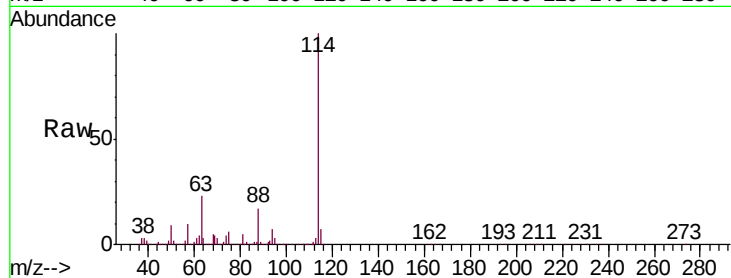
Tgt Ion:114 Resp: 3485127

Ion Ratio Lower Upper

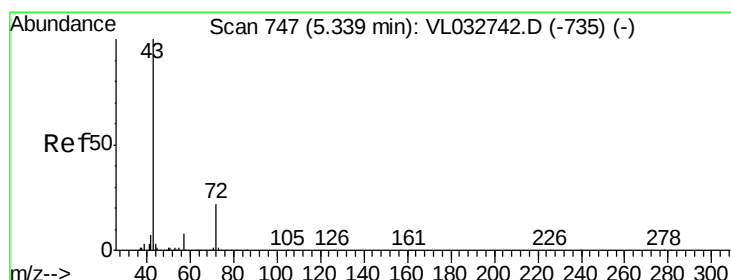
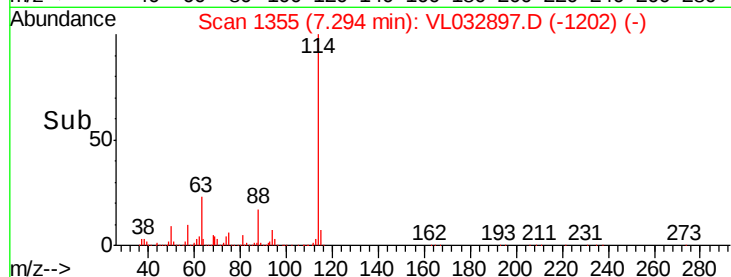
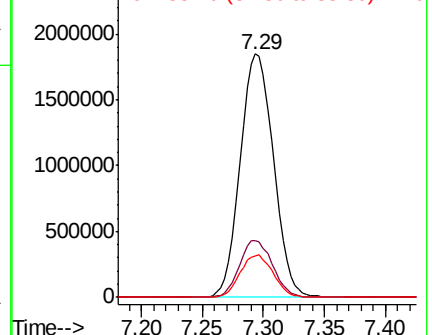
114 100

63 23.5 20.9 31.3

88 17.4 14.4 21.6



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: 3.486 ppbv

RT: 5.34 min Scan# 746

Delta R.T. -0.00 min

Lab File: VL032897.D

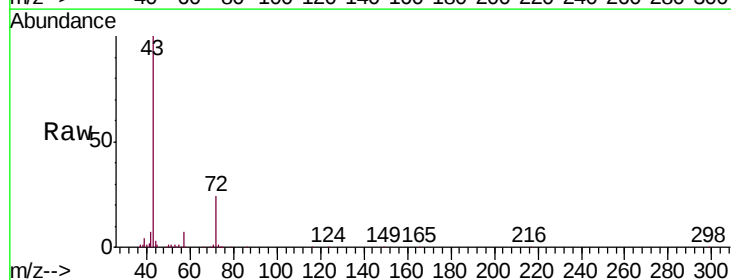
Acq: 5 Dec 2018 4:35

Tgt Ion: 43 Resp: 630139

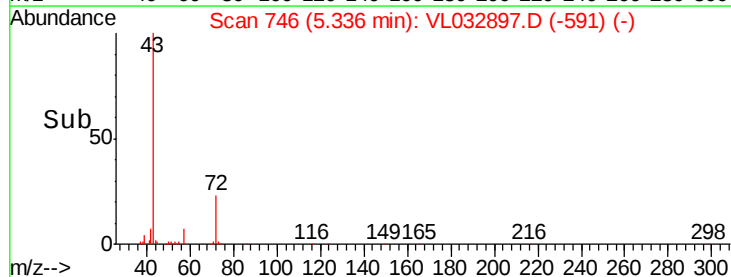
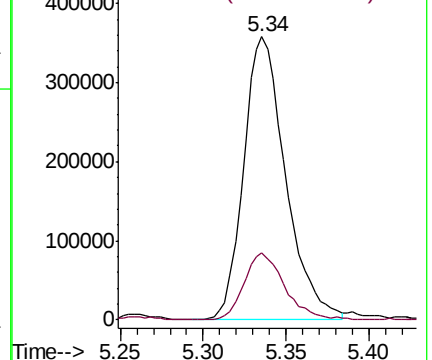
Ion Ratio Lower Upper

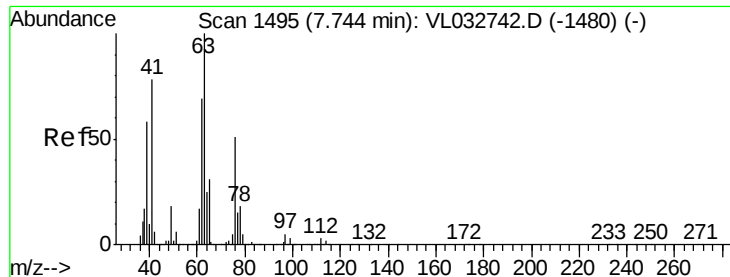
43 100

72 23.2 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 7.670 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL032897.D

Acq: 5 Dec 2018 4:35

Instrument :

MSVOA_L

ClientSampleId :

VSV-4DL

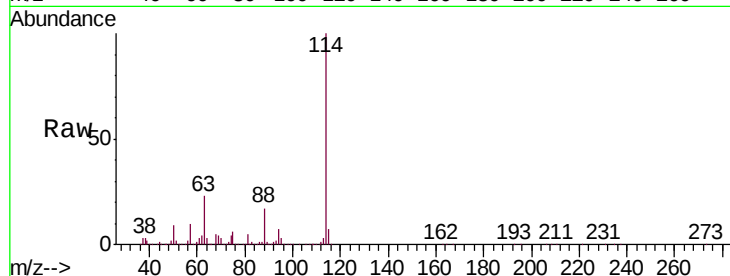
Tgt Ion: 63 Resp: 810982

Ion Ratio Lower Upper

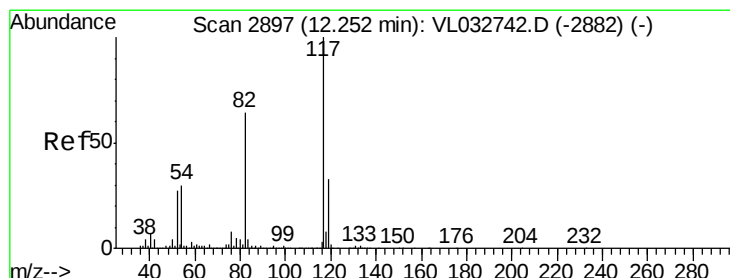
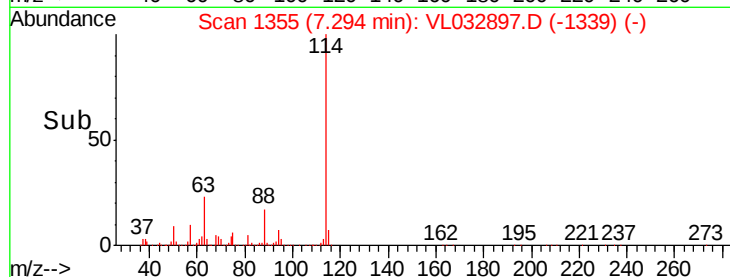
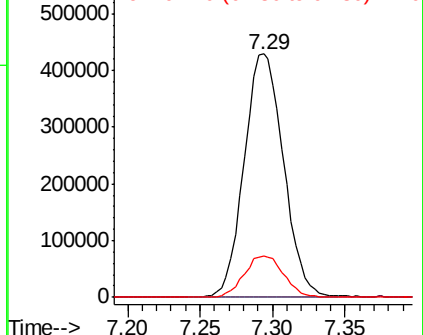
63 100

41 0.2 62.0 93.0#

62 17.1 55.4 83.2#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL032897.D

Acq: 5 Dec 2018 4:35

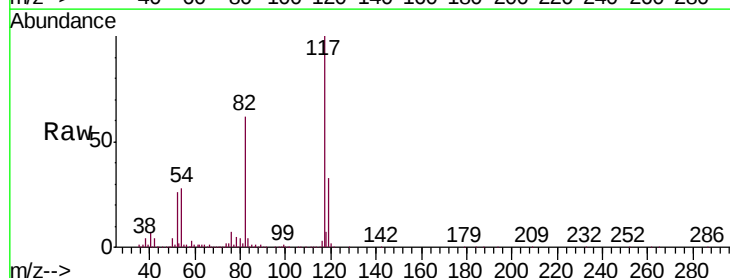
Tgt Ion: 117 Resp: 3624107

Ion Ratio Lower Upper

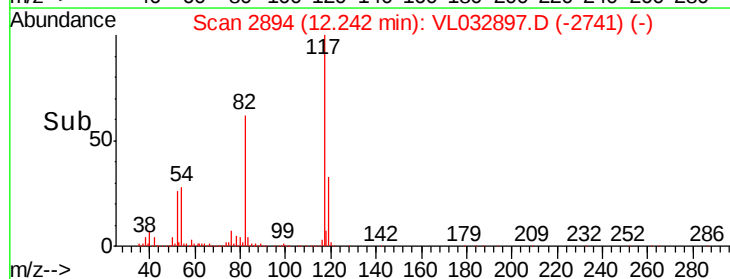
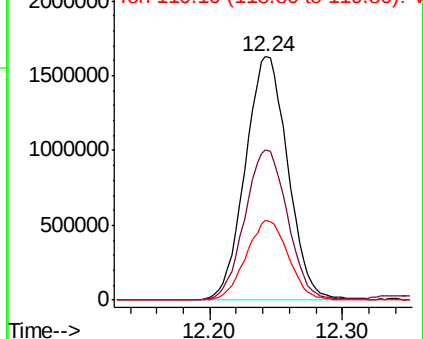
117 100

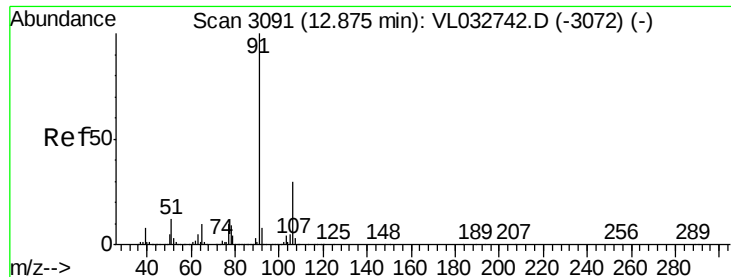
82 62.0 51.0 76.6

119 32.6 28.0 42.0



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





#58

Ethyl Benzene

Concen: 0.075 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032897.D

Acq: 5 Dec 2018 4:35

Instrument :

MSVOA_L

ClientSampleId :

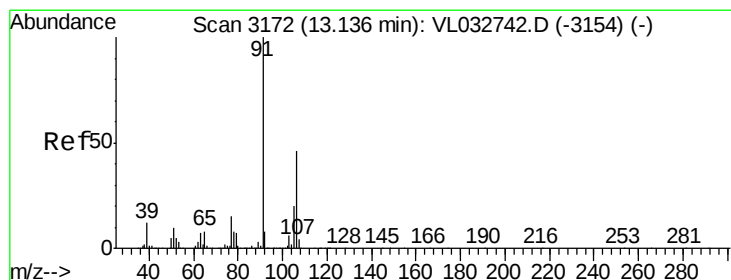
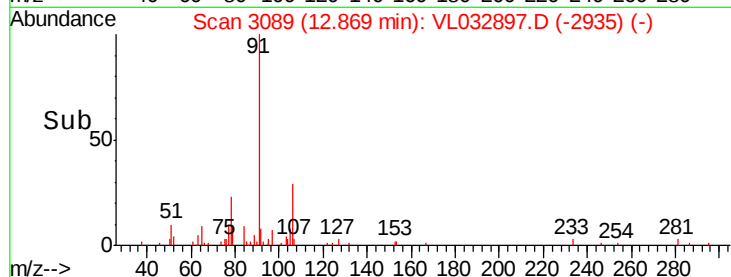
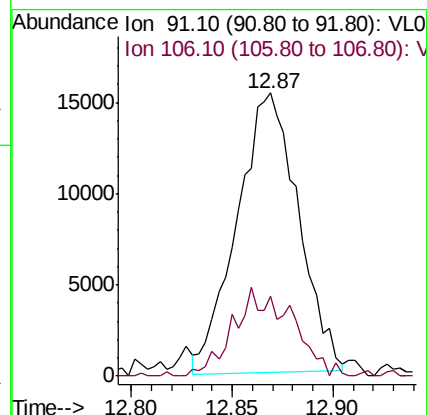
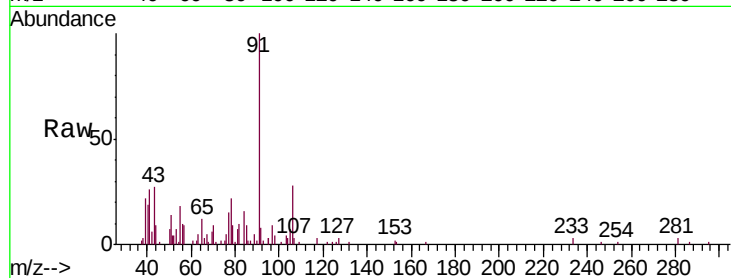
VSV-4DL

Tgt Ion: 91 Resp: 32550

Ion Ratio Lower Upper

91 100

106 29.0 23.6 35.4



#59

m/p-Xylene

Concen: 0.096 ppbv

RT: 13.13 min Scan# 3169

Delta R.T. -0.01 min

Lab File: VL032897.D

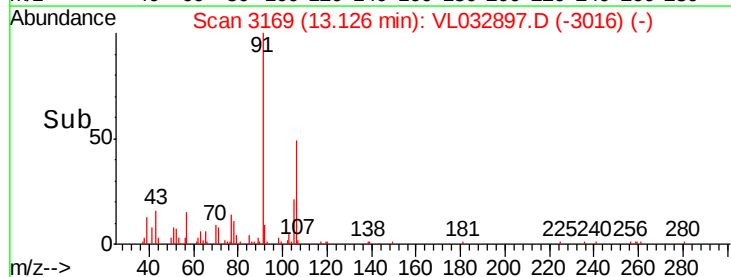
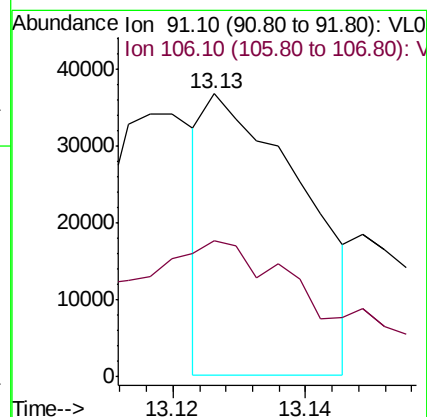
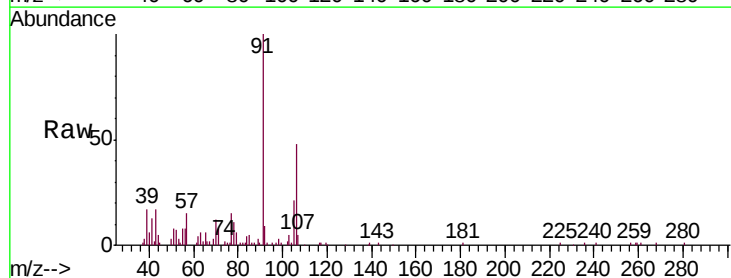
Acq: 5 Dec 2018 4:35

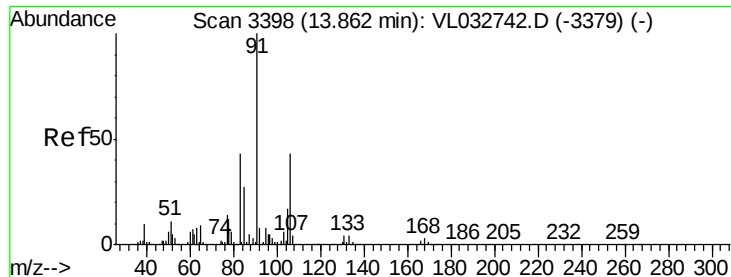
Tgt Ion: 91 Resp: 37279

Ion Ratio Lower Upper

91 100

106 128.4 36.1 54.1#

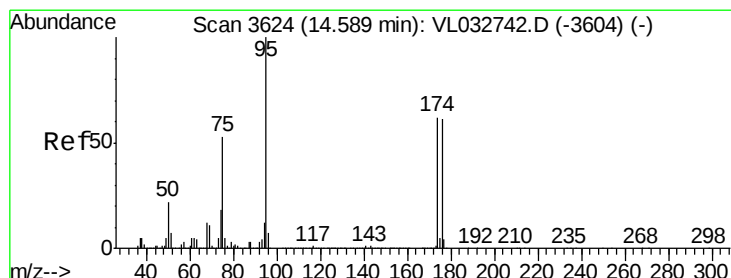
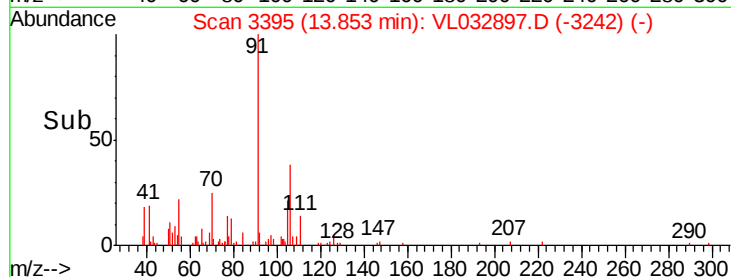
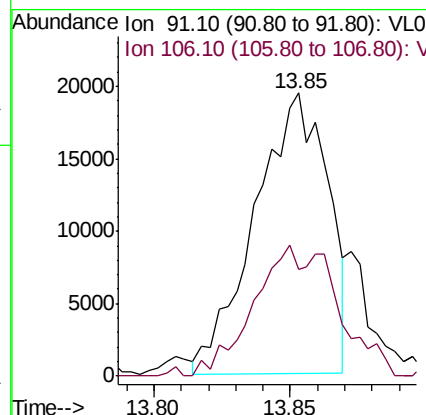
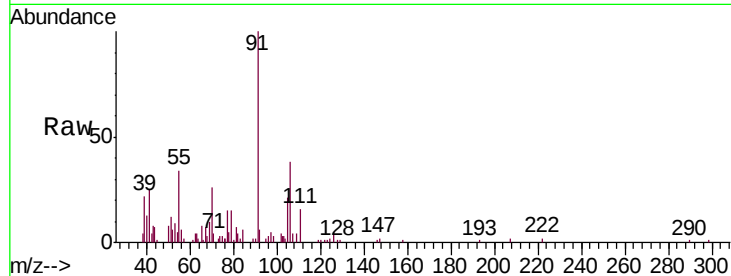




#60
o-Xylene
Concen: 0.092 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.01 min
Lab File: VL032897.D
Acq: 5 Dec 2018 4:35

Instrument :
MSVOA_L
ClientSampleId :
VSV-4DL

Tgt Ion: 91 Resp: 35999
Ion Ratio Lower Upper
91 100
106 54.1 21.9 65.7



#68
1-Bromo-4-Fluorobenzene
Concen: 9.699 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.01 min
Lab File: VL032897.D
Acq: 5 Dec 2018 4:35

Tgt Ion: 95 Resp: 2628981
Ion Ratio Lower Upper
95 100
174 65.7 50.7 76.1
175 4.9 3.8 5.6

