

Data File : VL034029.D
Acq On : 11 Jul 2019 22:42
Operator : SY/AP
Sample : K3747-03DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
NVS-1DL2

Quant Time: Jul 12 07:03:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1060729	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	2823219	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.20	117	2714712	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2203934	9.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.20%

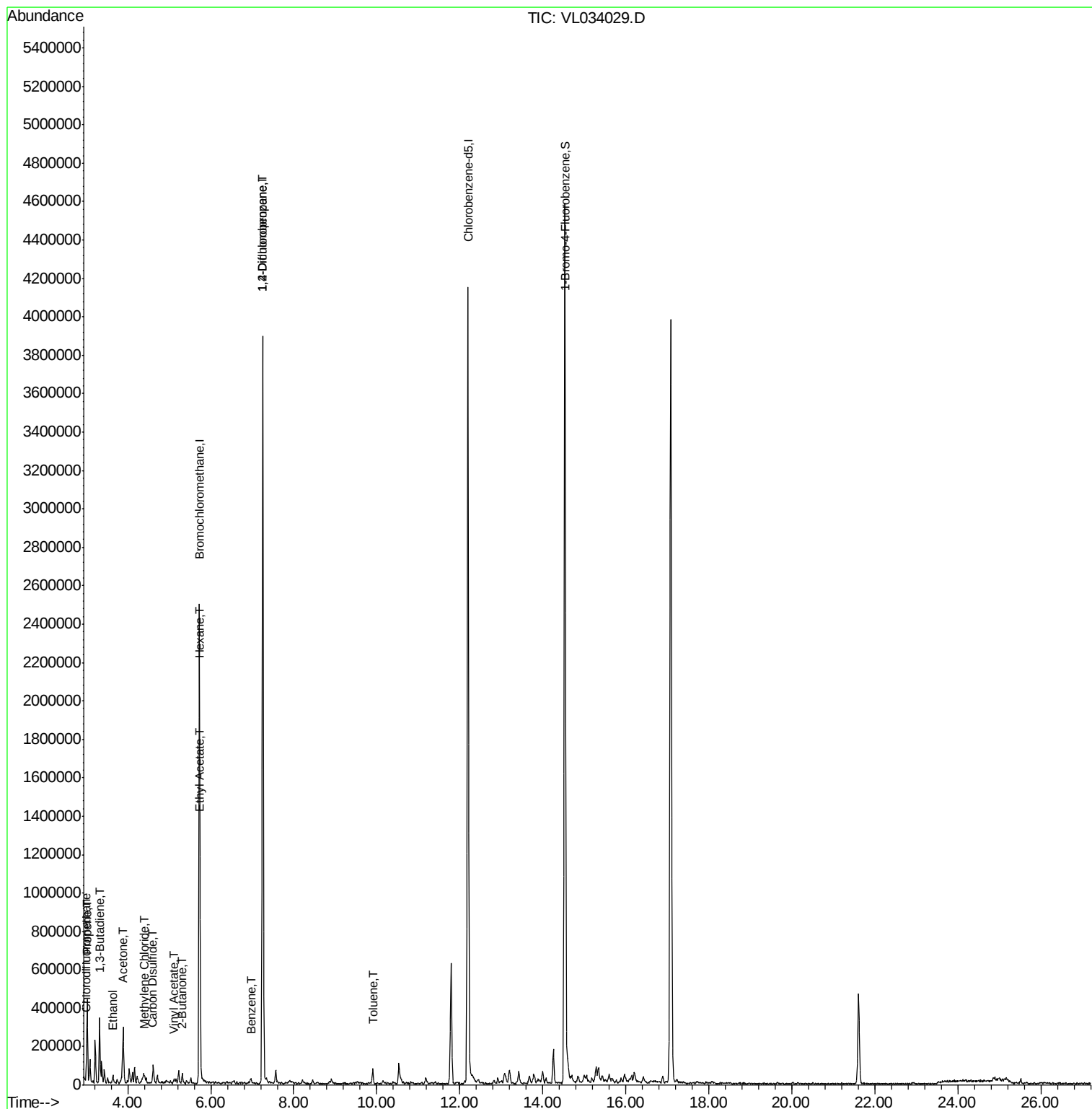
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	4232	0.032	ppbv #	77
9) Propene	3.02	41	166785	3.461	ppbv	88
13) Ethanol	3.64	45	35154	2.348	ppbv	99
15) Acetone	3.88	43	286586	1.607	ppbv #	73
16) 1,3-Butadiene	3.32	39	98778	1.569	ppbv #	24
20) Methylene Chloride	4.38	84	4921	0.063	ppbv #	45
23) Vinyl Acetate	5.12	43	18980	0.107	ppbv #	80
25) Ethyl Acetate	5.75	43	15133	0.062	ppbv #	87
26) Hexane	5.74	57	20685	0.185	ppbv #	37
27) Carbon Disulfide	4.59	76	11461	0.060	ppbv #	52
34) 2-Butanone	5.31	43	51550	0.345	ppbv	99
36) Benzene	6.97	78	13916	0.063	ppbv #	92
39) 1,2-Dichloropropane	7.25	63	682341	8.307	ppbv #	24
53) Toluene	9.90	91	20398	0.081	ppbv #	1

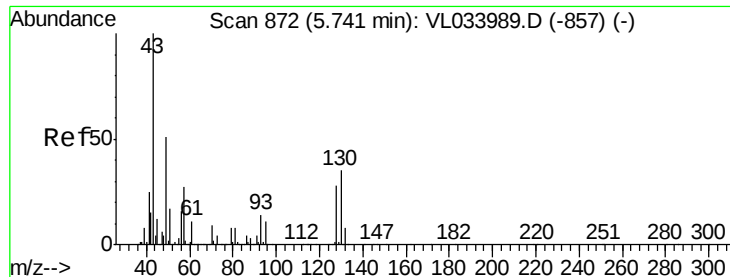
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 12 07:03:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.01 min

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NVS-1DL2

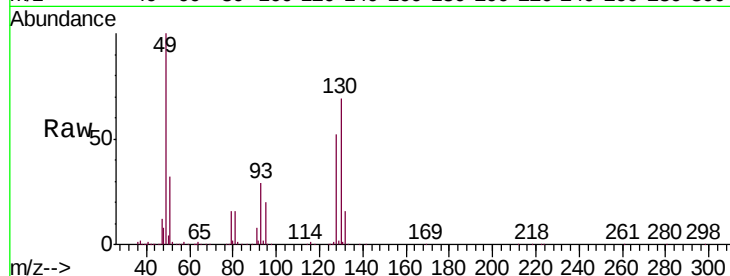
Tgt Ion: 49 Resp: 1060729

Ion Ratio Lower Upper

49 100

128 55.1 27.9 83.6

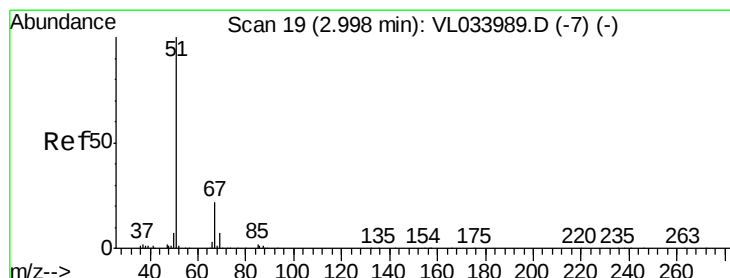
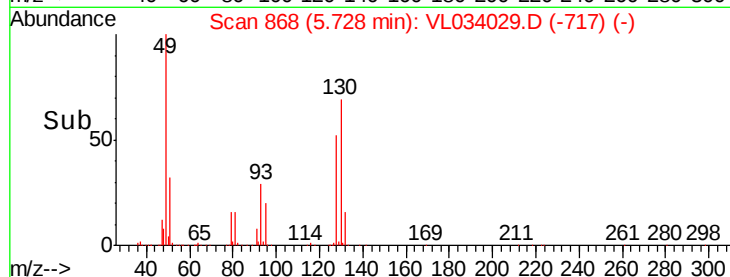
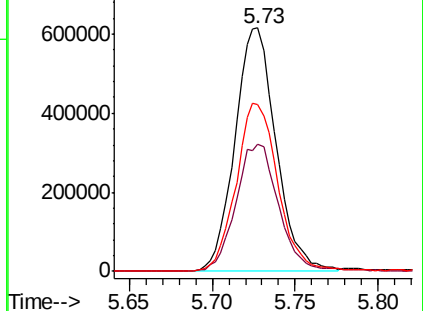
130 71.1 35.8 107.4



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



#3

Chlorodifluoromethane

Concen: 0.032 ppbv

RT: 2.99 min Scan# 18

Delta R.T. -0.00 min

Lab File: VL034029.D

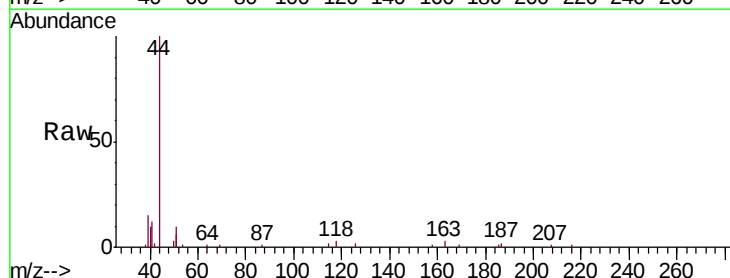
Acq: 11 Jul 2019 22:42

Tgt Ion: 51 Resp: 4232

Ion Ratio Lower Upper

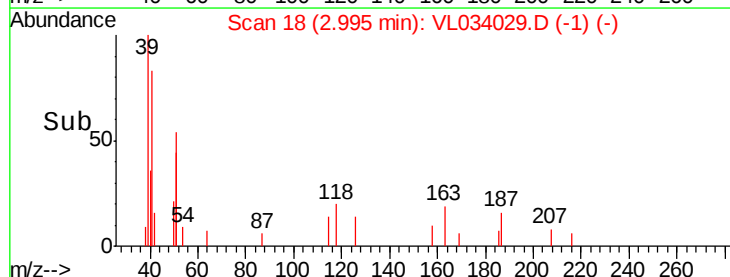
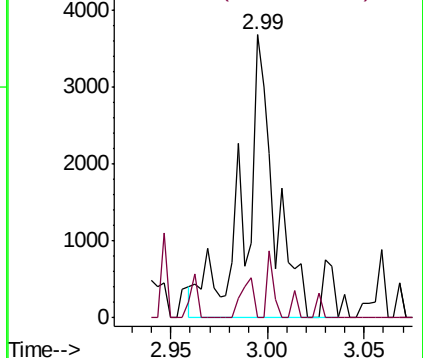
51 100

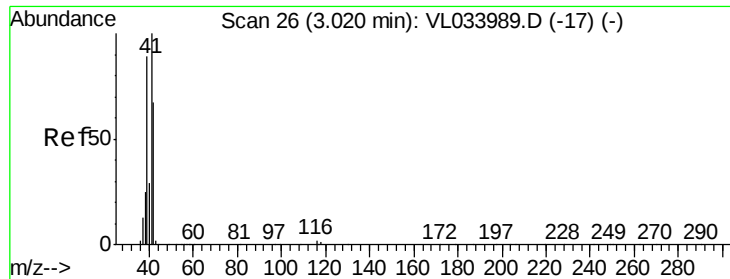
67 10.5 17.3 25.9#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 3.461 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL034029.D

Acq: 11 Jul 2019 22:42

Instrument :

MSVOA_L

ClientSampleId :

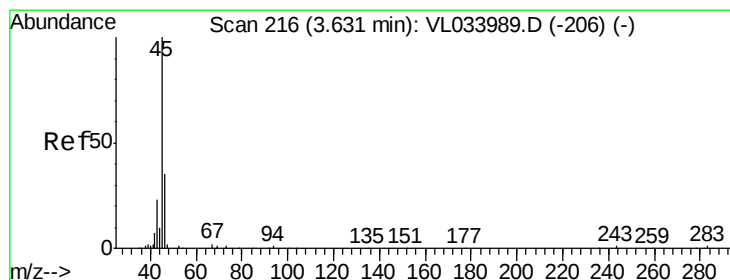
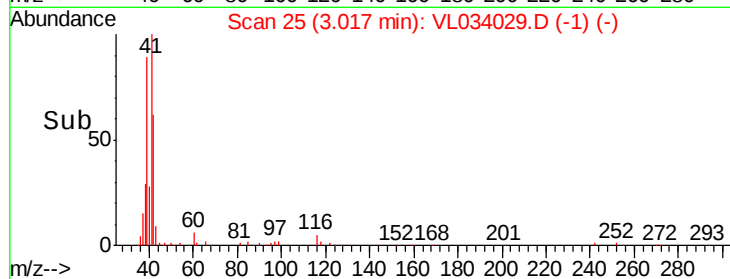
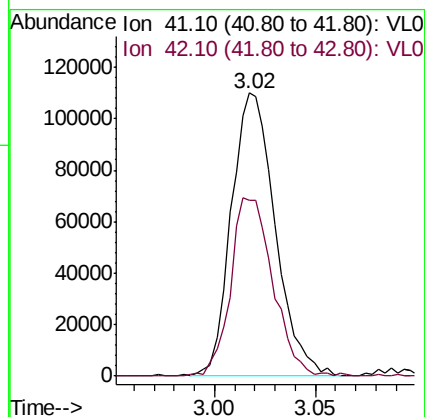
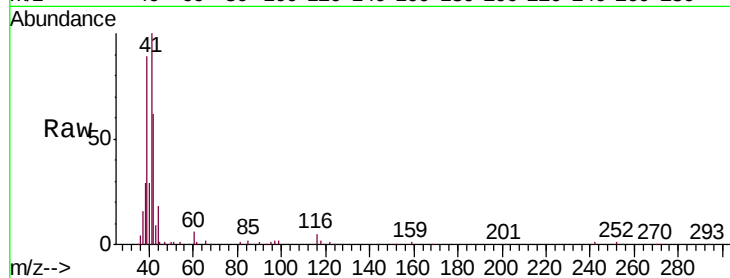
NVS-1DL2

Tgt Ion: 41 Resp: 166785

Ion Ratio Lower Upper

41 100

42 61.4 57.1 85.7



#13

Ethanol

Concen: 2.348 ppbv

RT: 3.64 min Scan# 219

Delta R.T. 0.01 min

Lab File: VL034029.D

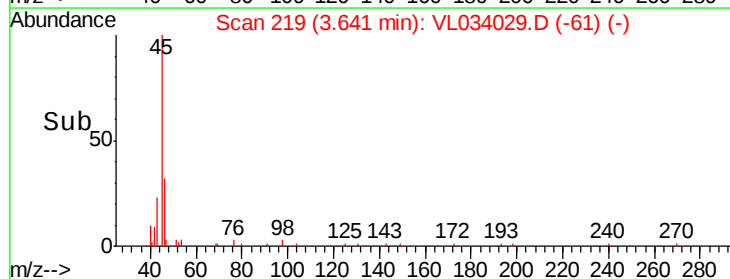
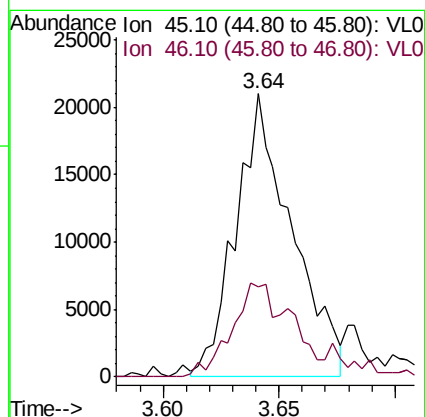
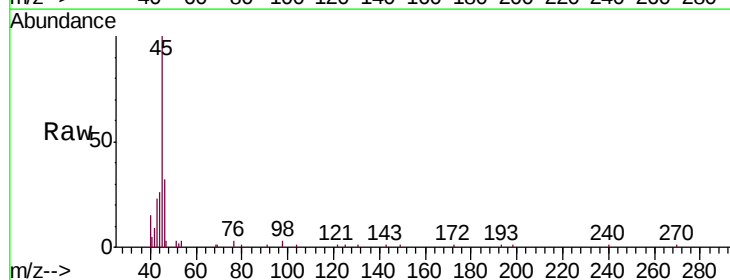
Acq: 11 Jul 2019 22:42

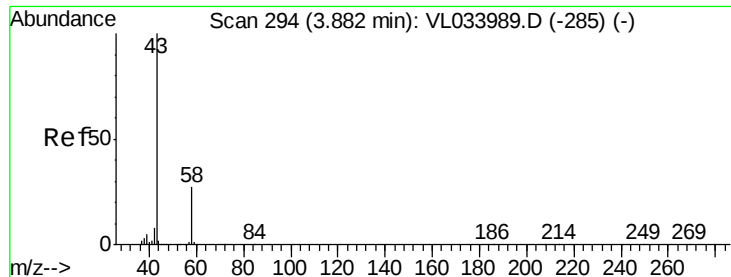
Tgt Ion: 45 Resp: 35154

Ion Ratio Lower Upper

45 100

46 40.7 16.2 64.6





#15

Acetone

Concen: 1.607 ppbv

RT: 3.88 min Scan# 294

Delta R.T. -0.00 min

Lab File: VL034029.D

Acq: 11 Jul 2019 22:42

Instrument :

MSVOA_L

ClientSampleId :

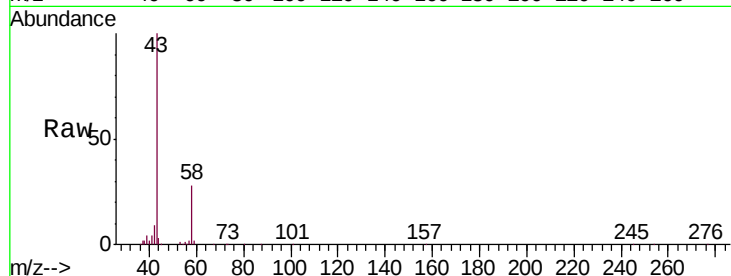
NVS-1DL2

Tgt Ion: 43 Resp: 286586

Ion Ratio Lower Upper

43 100

58 40.8 21.4 32.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.88

200000

150000

100000

50000

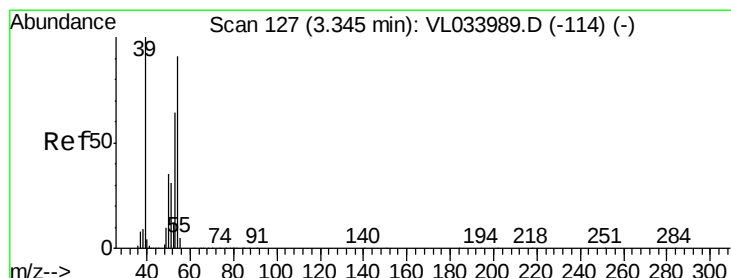
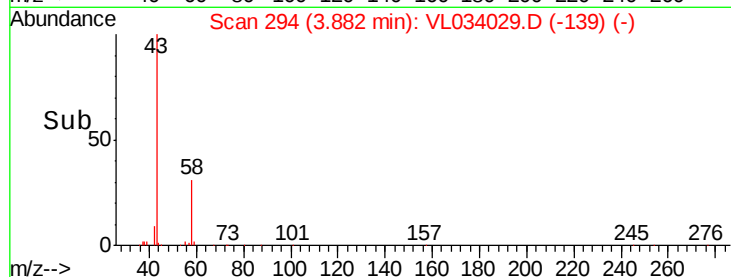
0

3.85

3.90

3.95

Time-->



#16

1,3-Butadiene

Concen: 1.569 ppbv

RT: 3.32 min Scan# 119

Delta R.T. -0.03 min

Lab File: VL034029.D

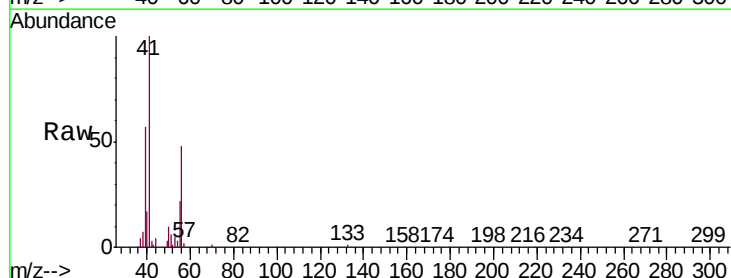
Acq: 11 Jul 2019 22:42

Tgt Ion: 39 Resp: 98778

Ion Ratio Lower Upper

39 100

54 18.0 71.4 107.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.32

60000

40000

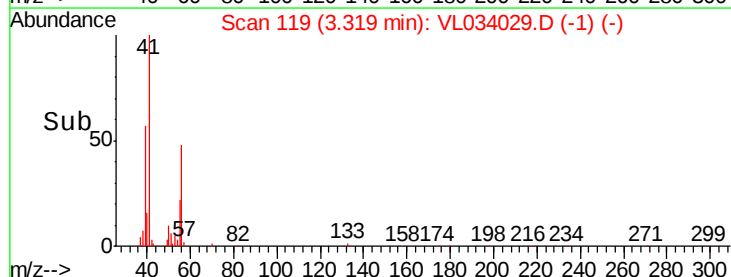
20000

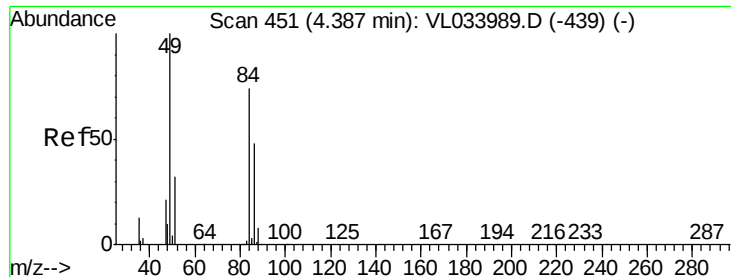
0

3.30

3.35

Time-->

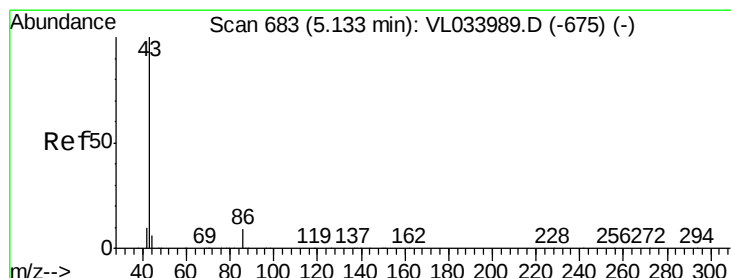
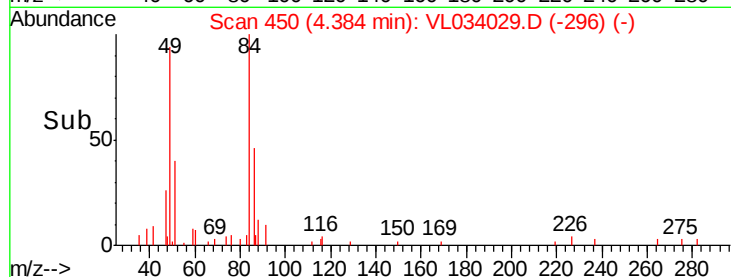
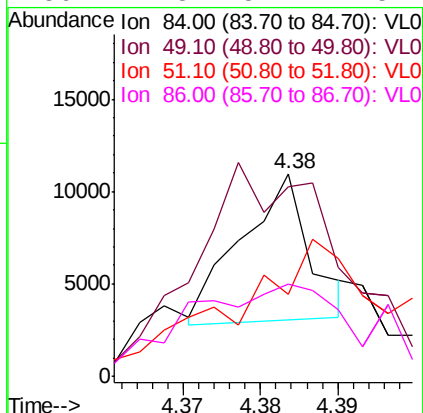
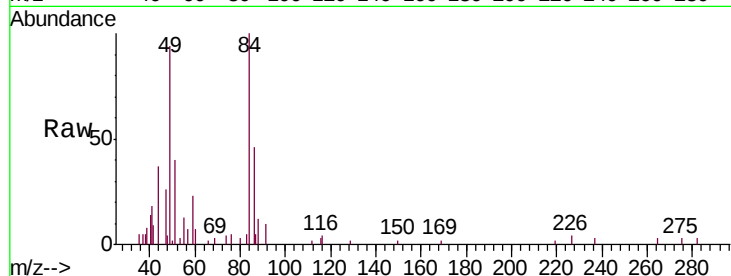




#20
Methylene Chloride
Concen: 0.063 ppbv
RT: 4.38 min Scan# 450
Delta R.T. -0.00 min
Lab File: VL034029.D
Acq: 11 Jul 2019 22:42

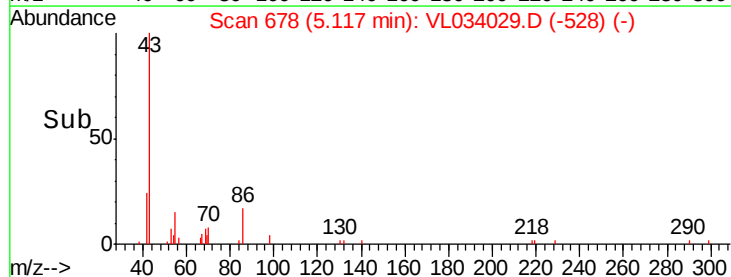
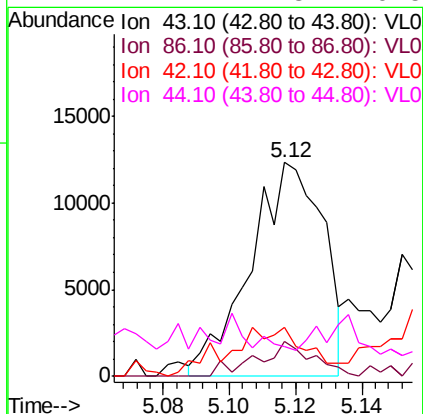
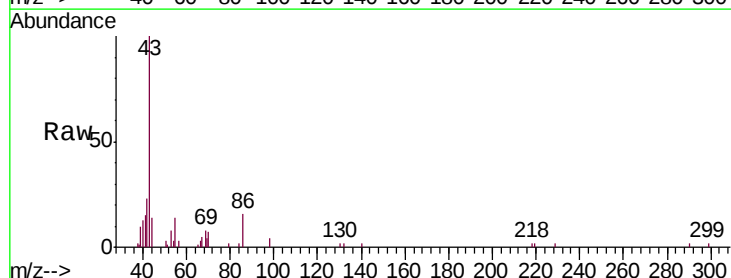
Instrument :
MSVOA_L
ClientSampleId :
NVS-1DL2

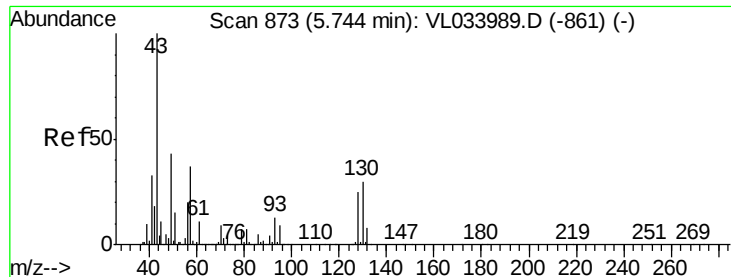
Tgt Ion:	84	Resp:	4921
Ion	Ratio	Lower	Upper
84	100		
49	67.0	107.6	161.4#
51	15.8	35.0	52.6#
86	17.8	52.1	78.1#



#23
Vinyl Acetate
Concen: 0.107 ppbv
RT: 5.12 min Scan# 678
Delta R.T. -0.02 min
Lab File: VL034029.D
Acq: 11 Jul 2019 22:42

Tgt Ion:	43	Resp:	18980
Ion	Ratio	Lower	Upper
43	100		
86	16.8	6.6	9.8#
42	17.8	8.3	12.5#
44	1.2	4.3	6.5#

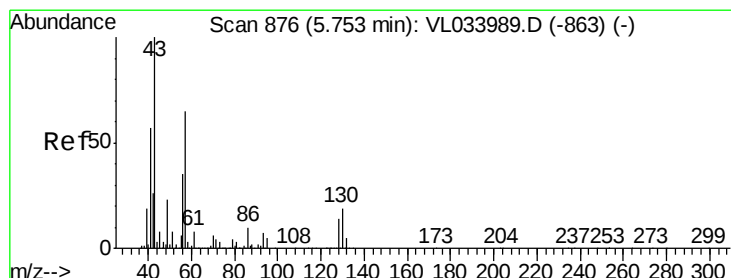
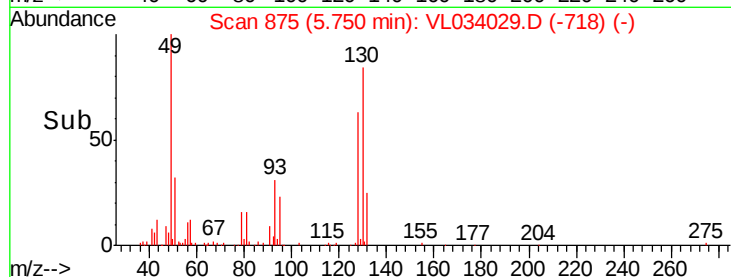
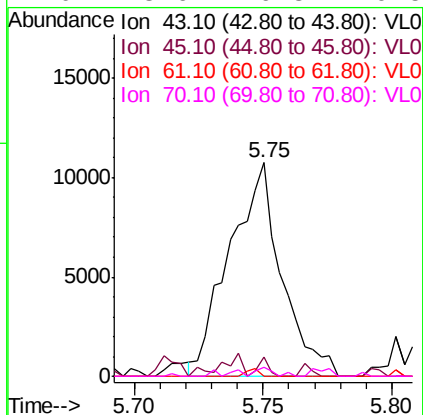
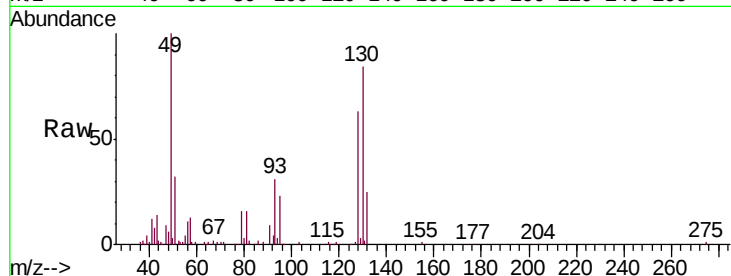




#25
Ethyl Acetate
Concen: 0.062 ppbv
RT: 5.75 min Scan# 875
Delta R.T. 0.01 min
Lab File: VL034029.D
Acq: 11 Jul 2019 22:42

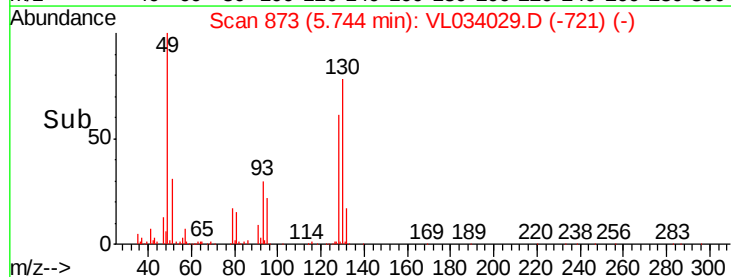
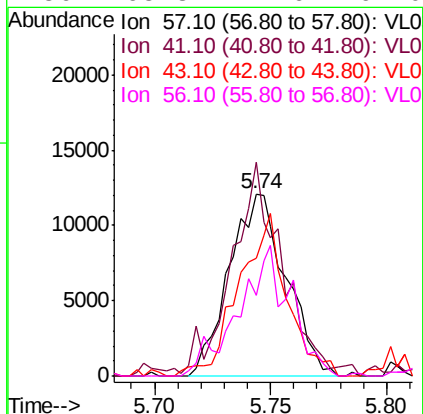
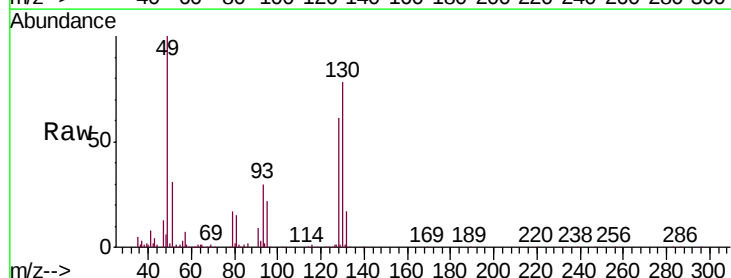
Instrument :
MSVOA_L
ClientSampleId :
NVS-1DL2

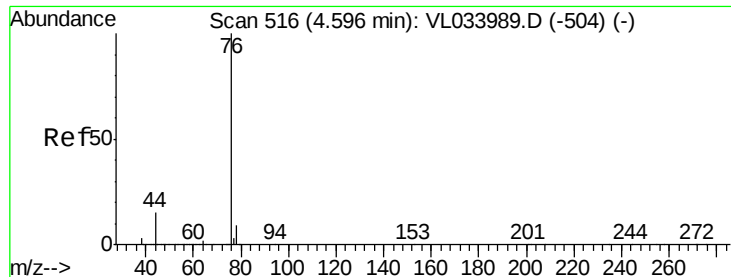
Tgt Ion:	43	Resp:	15133
Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.1	12.1
61	0.8	8.1	12.1#
70	3.6	6.3	9.5#



#26
Hexane
Concen: 0.185 ppbv
RT: 5.74 min Scan# 873
Delta R.T. -0.01 min
Lab File: VL034029.D
Acq: 11 Jul 2019 22:42

Tgt Ion:	57	Resp:	20685
Ion	Ratio	Lower	Upper
57	100		
41	108.6	70.6	105.8#
43	75.9	177.6	266.4#
56	65.3	42.6	64.0#





#27

Carbon Disulfide

Concen: 0.060 ppbv

RT: 4.59 min Scan# 514

Delta R.T. -0.01 min

Lab File: VL034029.D

Acq: 11 Jul 2019 22:42

Instrument :

MSVOA_L

ClientSampleId :

NVS-1DL2

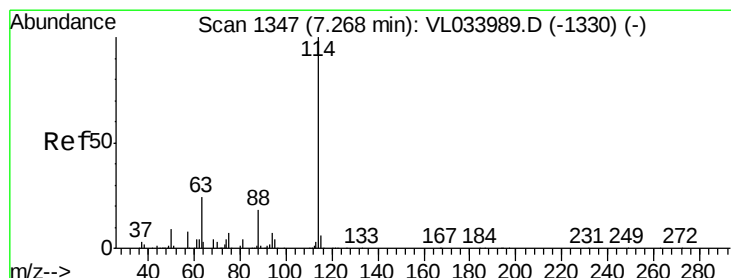
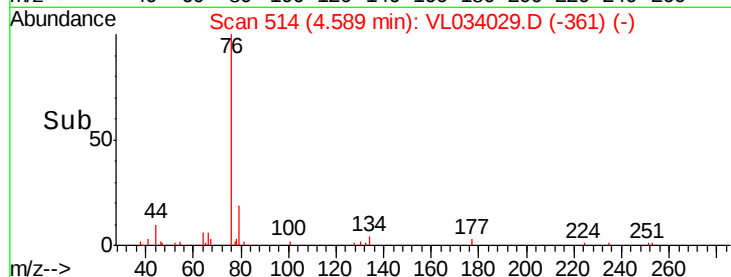
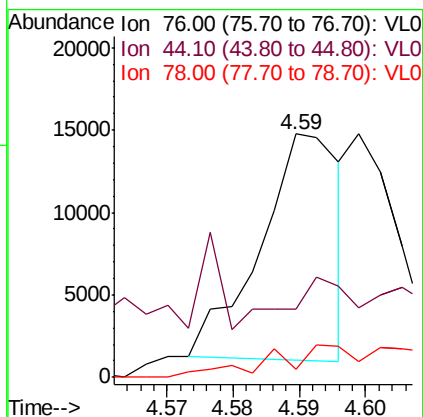
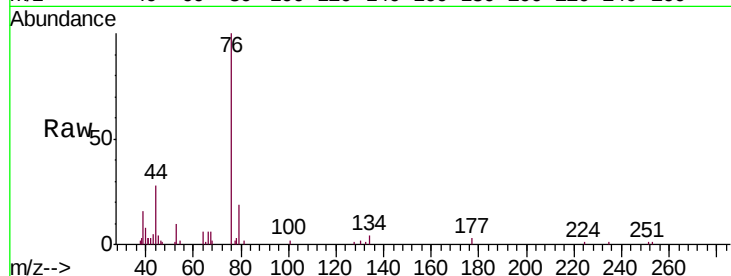
Tgt Ion: 76 Resp: 11461

Ion Ratio Lower Upper

76 100

44 34.6 12.6 18.8#

78 28.7 7.2 10.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.25 min Scan# 1342

Delta R.T. -0.02 min

Lab File: VL034029.D

Acq: 11 Jul 2019 22:42

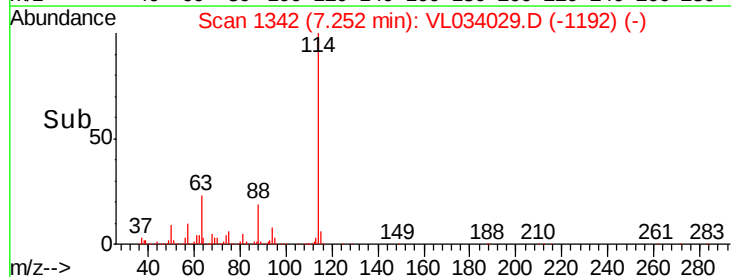
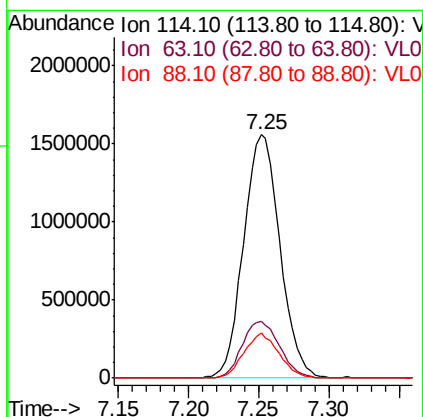
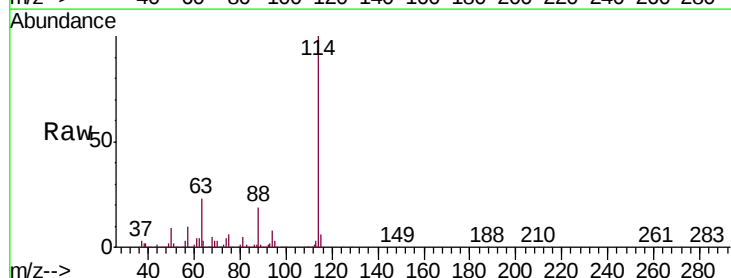
Tgt Ion: 114 Resp: 2823219

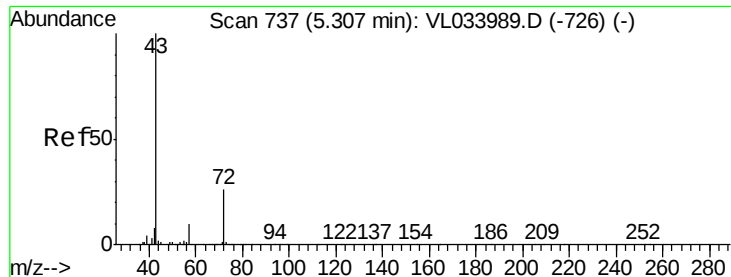
Ion Ratio Lower Upper

114 100

63 24.3 20.2 30.2

88 17.8 14.1 21.1

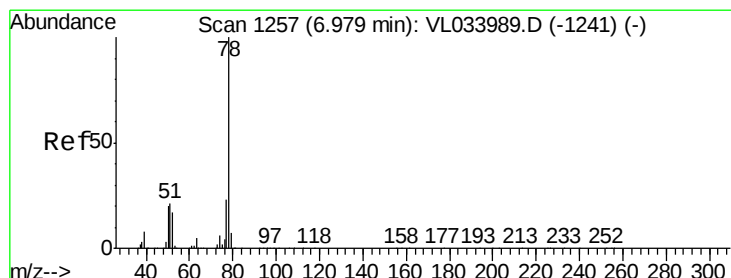
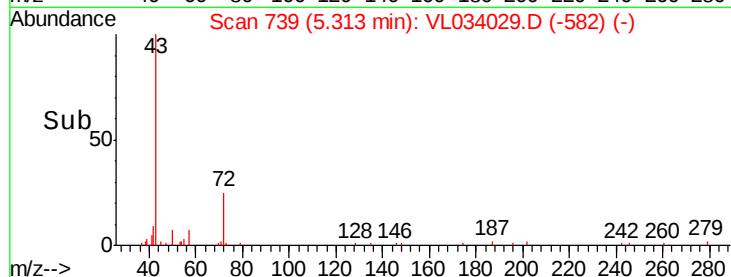
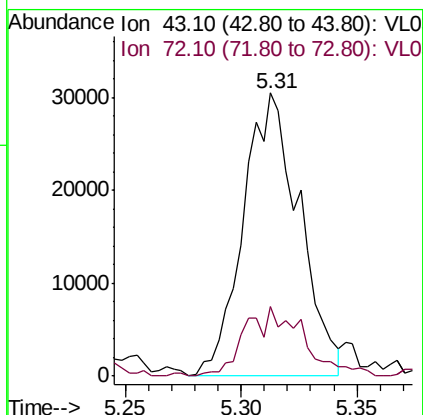
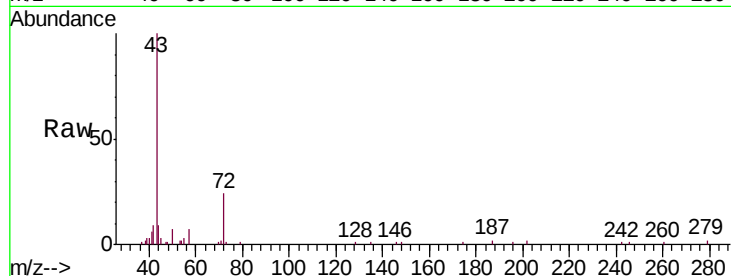




#34
2-Butanone
Concen: 0.345 ppbv
RT: 5.31 min Scan# 739
Delta R.T. 0.01 min
Lab File: VL034029.D
Acq: 11 Jul 2019 22:42

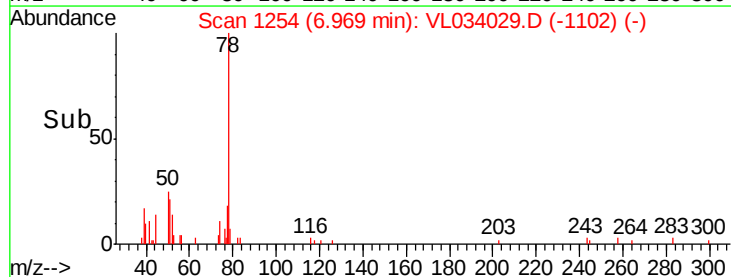
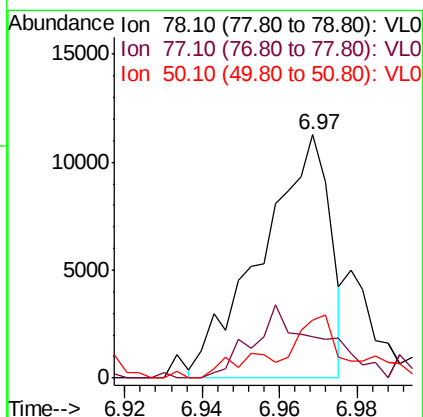
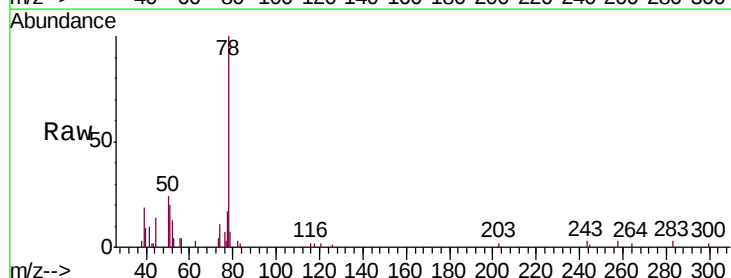
Instrument :
MSVOA_L
ClientSampleId :
NVS-1DL2

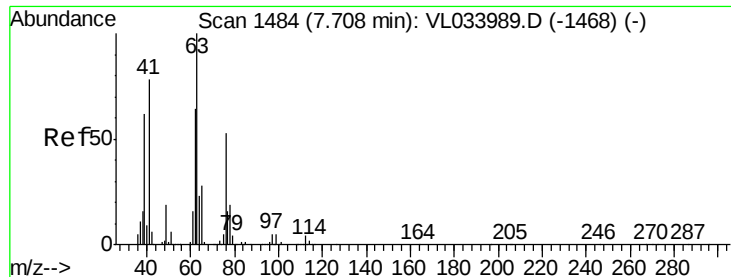
Tgt Ion: 43 Resp: 51550
Ion Ratio Lower Upper
43 100
72 25.4 19.9 29.9



#36
Benzene
Concen: 0.063 ppbv
RT: 6.97 min Scan# 1254
Delta R.T. -0.01 min
Lab File: VL034029.D
Acq: 11 Jul 2019 22:42

Tgt Ion: 78 Resp: 13916
Ion Ratio Lower Upper
78 100
77 16.5 18.7 28.1#
50 19.6 16.2 24.2





#39

1,2-Dichloropropane

Concen: 8.307 ppbv

RT: 7.25 min Scan# 1342

Delta R.T. -0.46 min

Lab File: VL034029.D

Acq: 11 Jul 2019 22:42

Instrument :

MSVOA_L

ClientSampleId :

NVS-1DL2

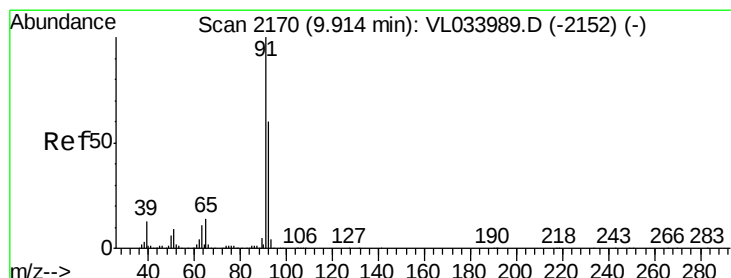
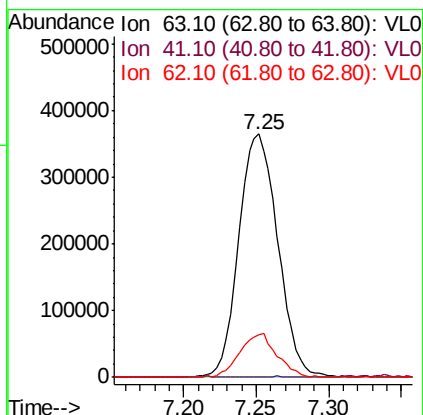
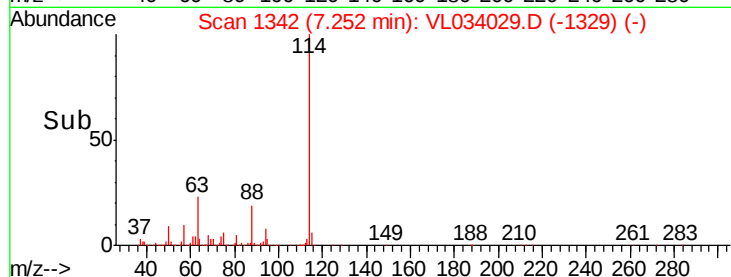
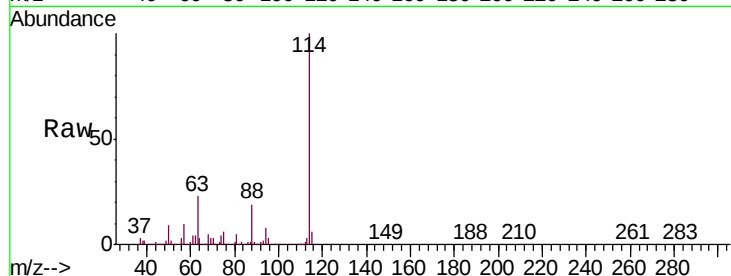
Tgt Ion: 63 Resp: 682341

Ion Ratio Lower Upper

63 100

41 0.0 62.3 93.5#

62 17.3 51.4 77.2#



#53

Toluene

Concen: 0.081 ppbv

RT: 9.90 min Scan# 2165

Delta R.T. -0.02 min

Lab File: VL034029.D

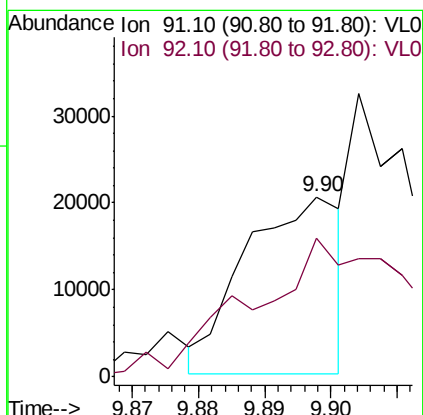
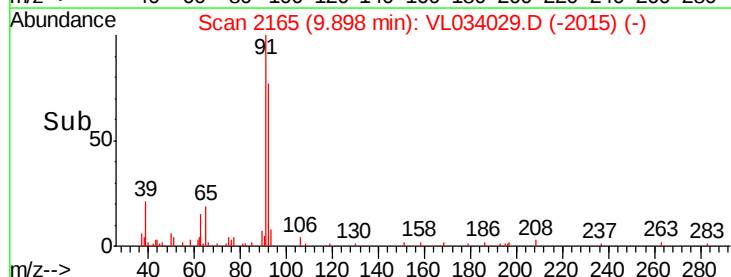
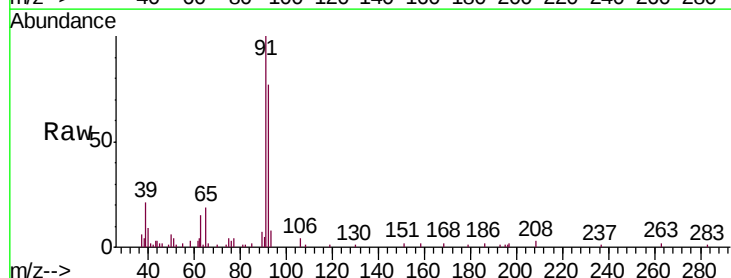
Acq: 11 Jul 2019 22:42

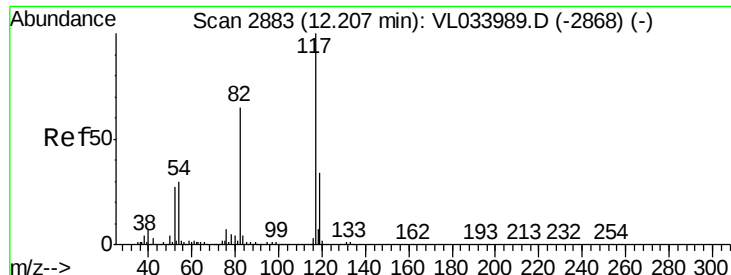
Tgt Ion: 91 Resp: 20398

Ion Ratio Lower Upper

91 100

92 145.6 47.7 71.5#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.20 min Scan# 2880

Delta R.T. -0.01 min

Lab File: VL034029.D

Acq: 11 Jul 2019 22:42

Instrument :

MSVOA_L

ClientSampleId :

NVS-1DL2

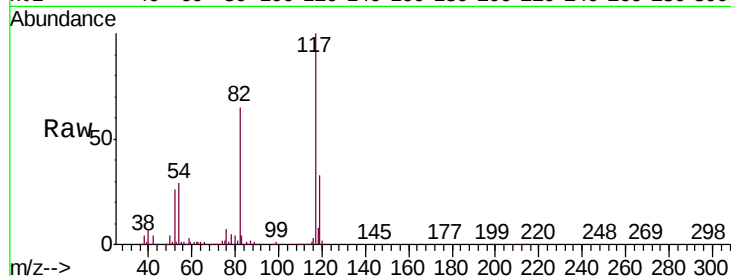
Tgt Ion:117 Resp: 2714712

Ion Ratio Lower Upper

117 100

82 65.5 50.8 76.2

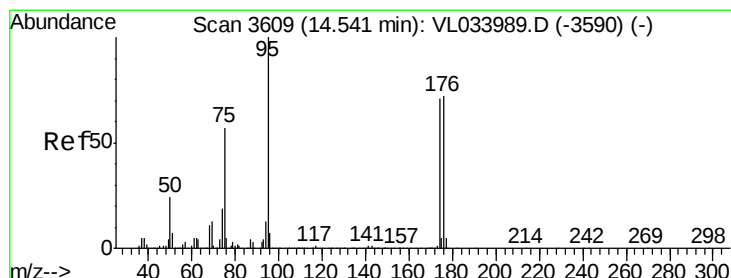
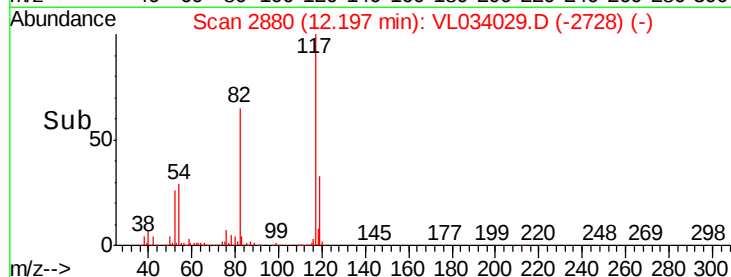
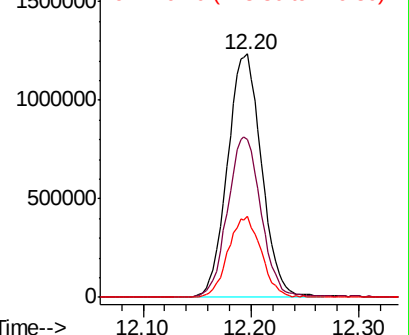
119 32.5 24.0 36.0



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



#68

1-Bromo-4-Fluorobenzene

Concen: 9.519 ppbv

RT: 14.53 min Scan# 3606

Delta R.T. -0.01 min

Lab File: VL034029.D

Acq: 11 Jul 2019 22:42

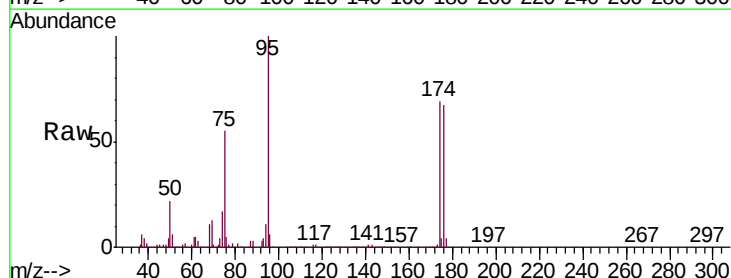
Tgt Ion: 95 Resp: 2203934

Ion Ratio Lower Upper

95 100

174 71.6 60.5 90.7

175 4.9 4.0 6.0



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

