

Data File : VL033817.D
Acq On : 29 May 2019 00:32
Operator : SY/AP
Sample : K2960-05DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BPS1-ODA-3004-04DL

Quant Time: May 29 05:32:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	739514	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1877012	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1696730	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1478179	10.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.50%

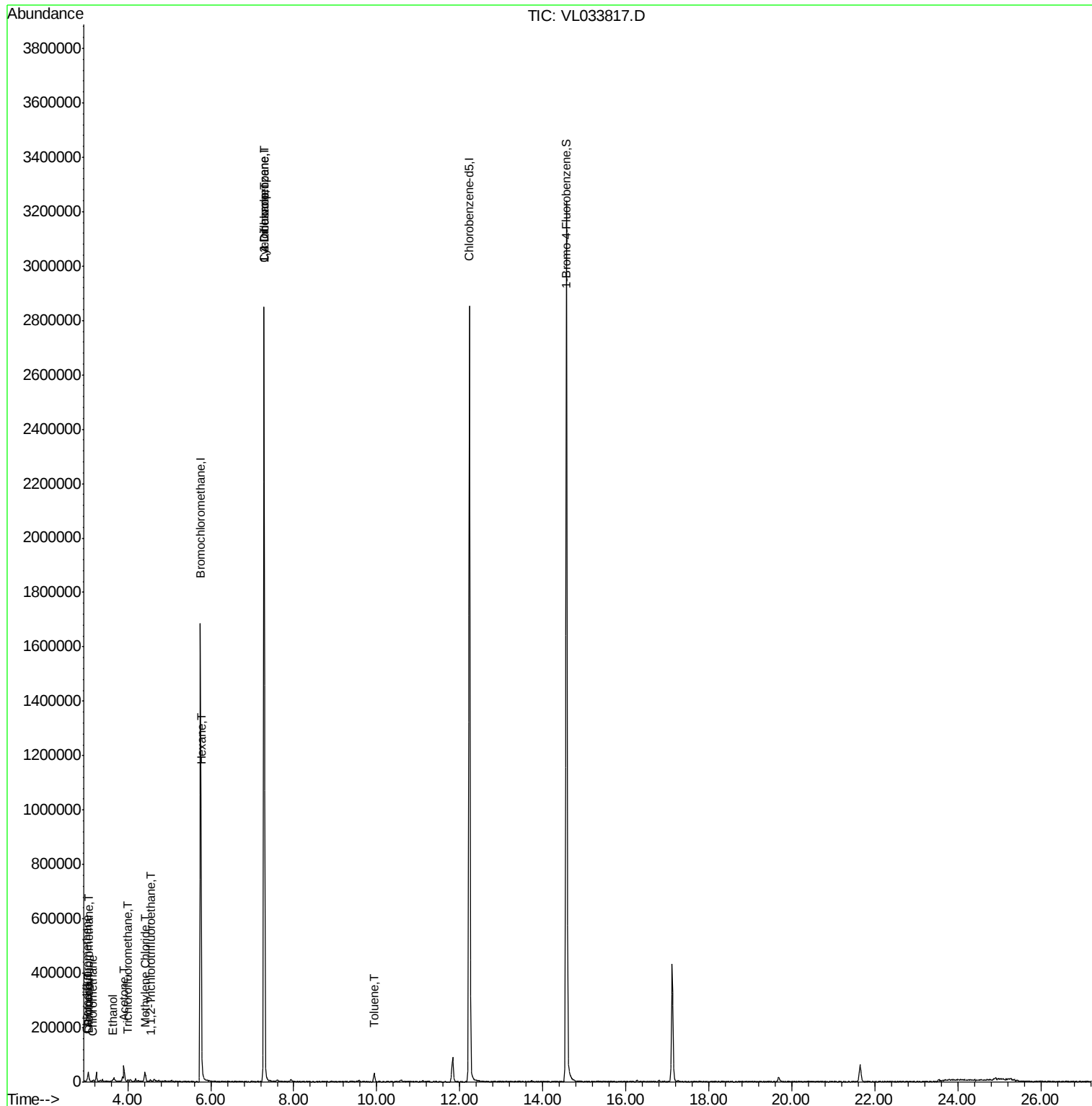
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	5933	0.038	ppbv	95
3) Chlorodifluoromethane	3.01	51	4878	0.058	ppbv	93
4) Chloromethane	3.17	50	1096	0.023	ppbv #	74
9) Propene	3.05	41	7192	0.200	ppbv #	81
11) Trichlorofluoromethane	4.00	101	2244	0.015	ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1714	0.017	ppbv	94
13) Ethanol	3.63	45	160	0.014	ppbv #	38
15) Acetone	3.90	43	60872	0.593	ppbv	98
20) Methylene Chloride	4.41	84	8998	0.228	ppbv #	88
26) Hexane	5.78	57	2004	0.026	ppbv #	42
30) Cyclohexane	7.27	84	4506	0.069	ppbv #	1
39) 1,2-Dichloropropane	7.28	63	495253	7.780	ppbv #	23
53) Toluene	9.93	91	9739	0.053	ppbv #	21

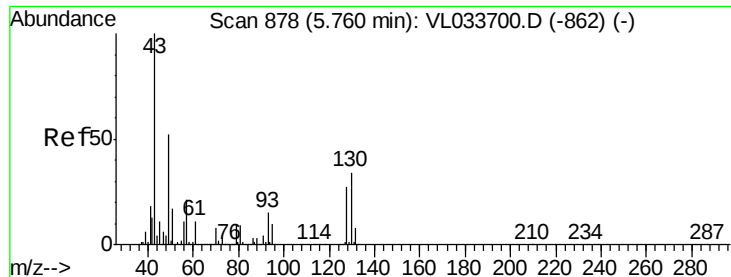
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 17 08:15:41 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033817.D

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Instrument :

MSVOA_L

ClientSampleId :

BPS1-ODA-3004-04DL

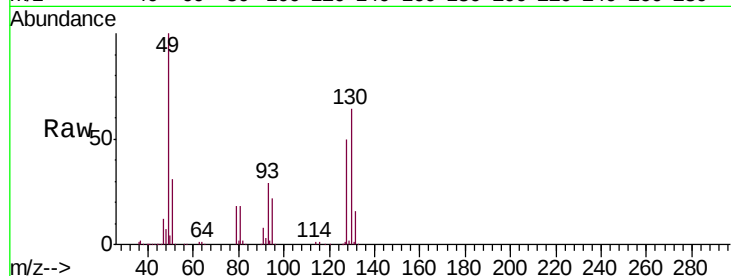
Tgt Ion: 49 Resp: 739514

Ion Ratio Lower Upper

49 100

128 50.0 25.2 75.6

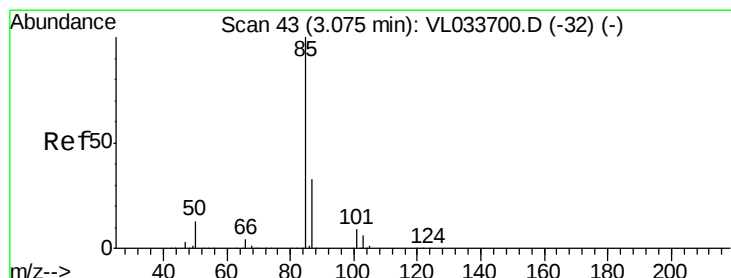
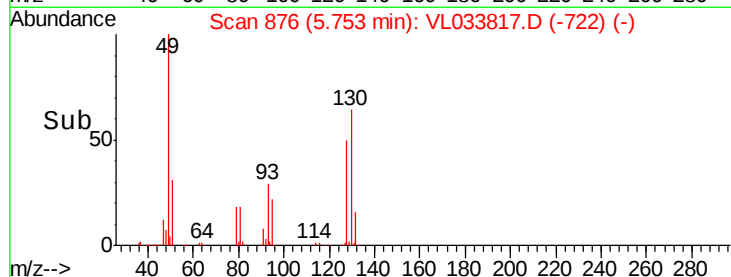
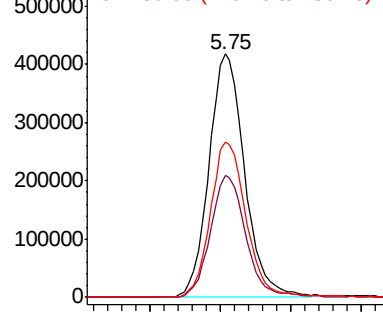
130 64.4 32.5 97.5



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: 0.038 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033817.D

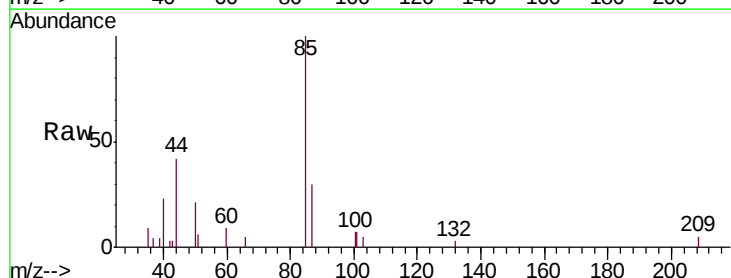
Acq: 29 May 2019 00:32

Tgt Ion: 85 Resp: 5933

Ion Ratio Lower Upper

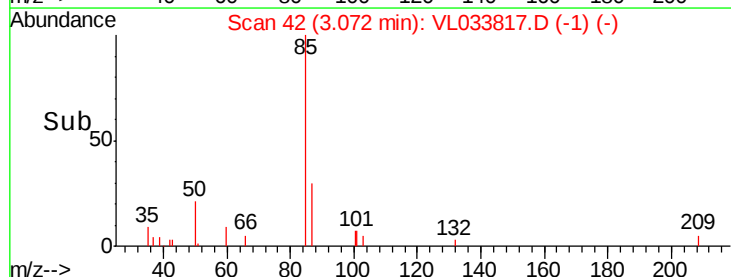
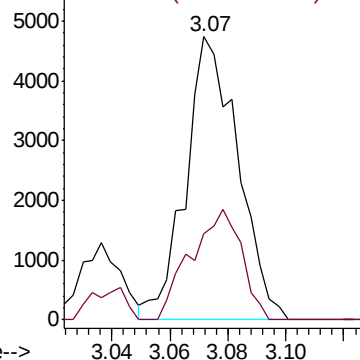
85 100

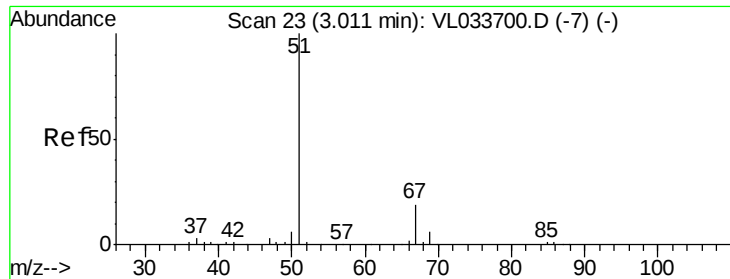
87 30.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.058 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033817.D

Acq: 29 May 2019 00:32

Instrument :

MSVOA_L

ClientSampleId :

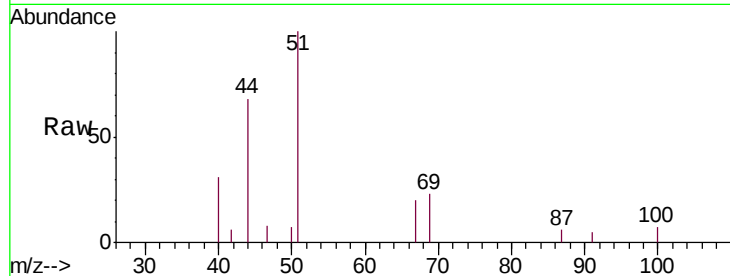
BPS1-ODA-3004-04DL

Tgt Ion: 51 Resp: 4878

Ion Ratio Lower Upper

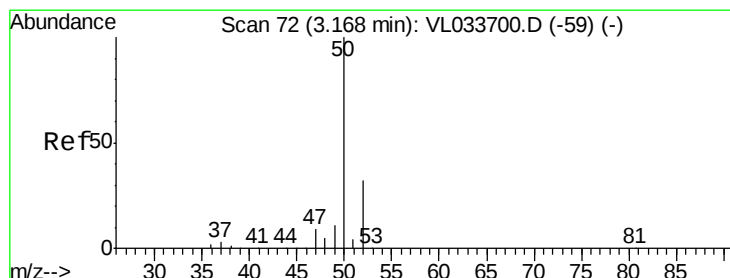
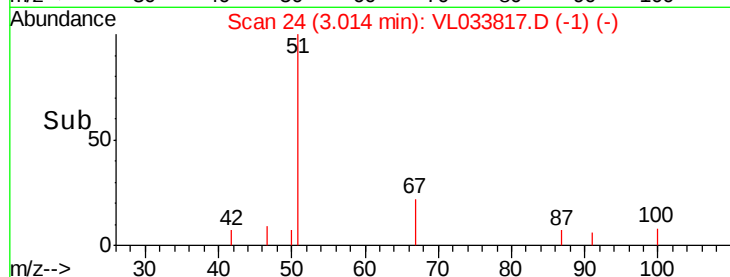
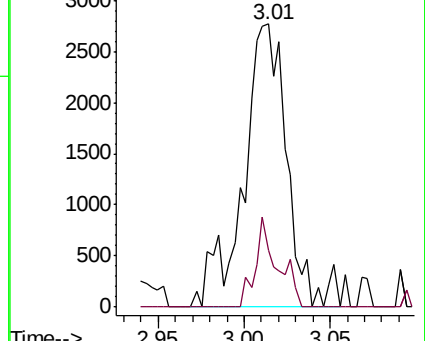
51 100

67 16.2 15.6 23.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.023 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033817.D

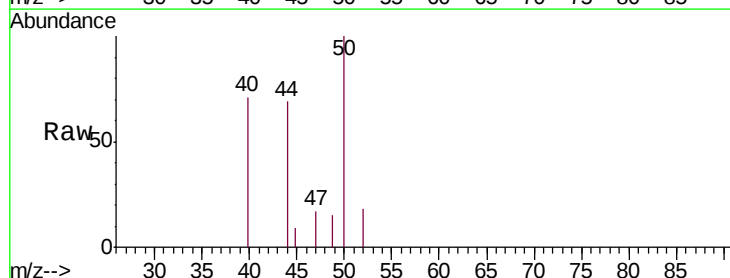
Acq: 29 May 2019 00:32

Tgt Ion: 50 Resp: 1096

Ion Ratio Lower Upper

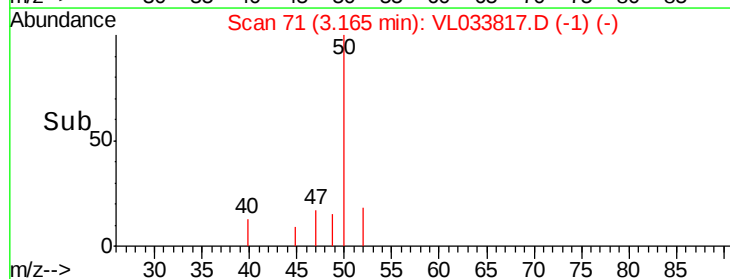
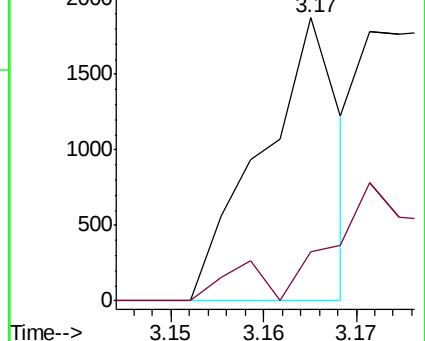
50 100

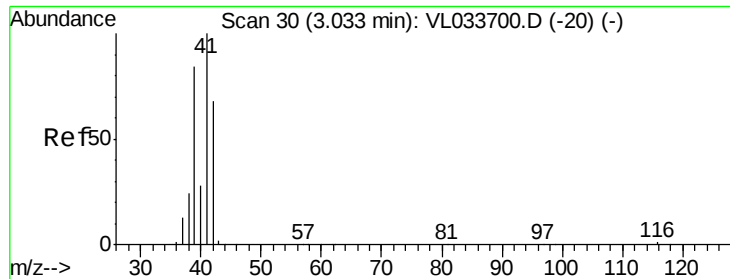
52 17.6 25.7 38.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.200 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033817.D

Acq: 29 May 2019 00:32

Instrument :

MSVOA_L

ClientSampleId :

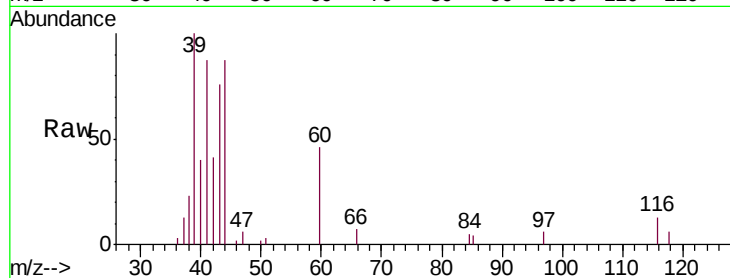
BPS1-ODA-3004-04DL

Tgt Ion: 41 Resp: 7192

Ion Ratio Lower Upper

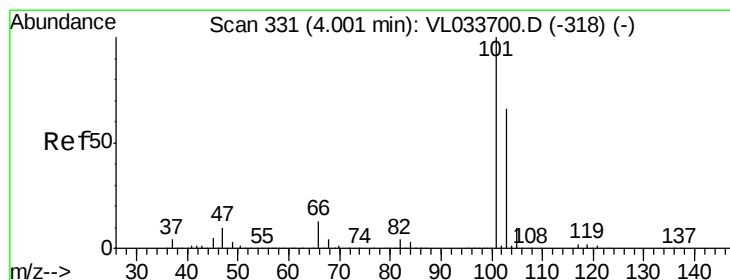
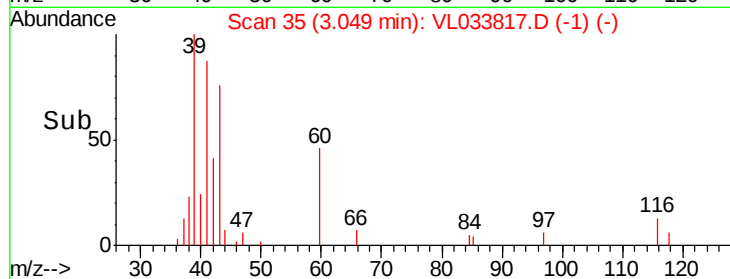
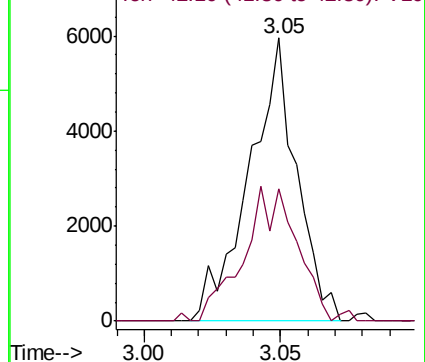
41 100

42 54.5 56.1 84.1#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.015 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033817.D

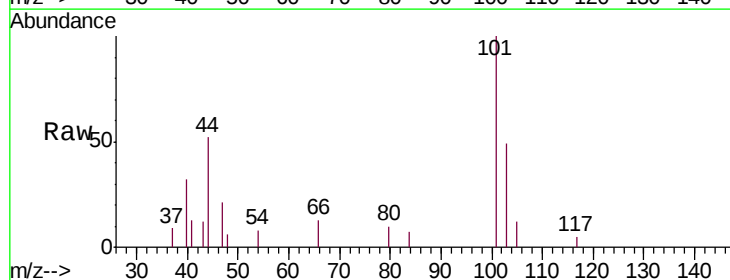
Acq: 29 May 2019 00:32

Tgt Ion: 101 Resp: 2244

Ion Ratio Lower Upper

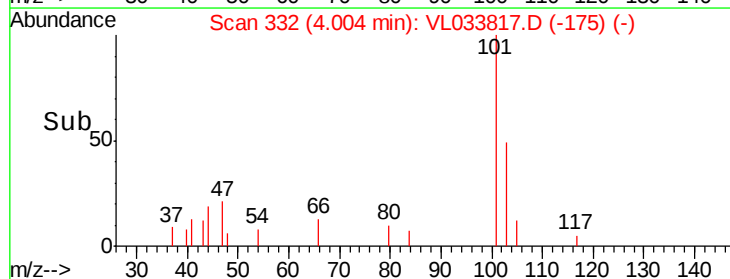
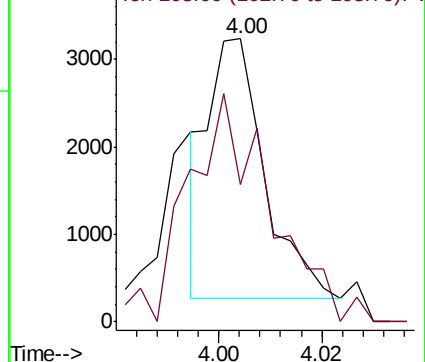
101 100

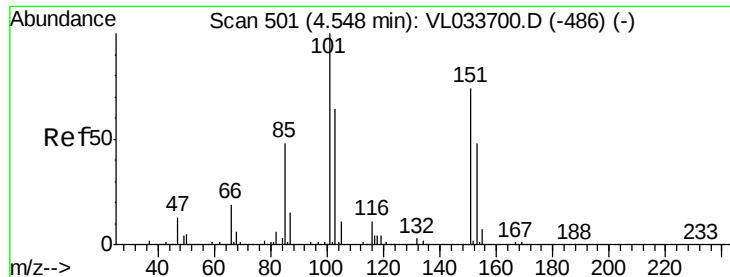
103 52.9 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.017 ppbv

RT: 4.55 min Scan# 501

Delta R.T. 0.00 min

Lab File: VL033817.D

Acq: 29 May 2019 00:32

Instrument :

MSVOA_L

ClientSampleId :

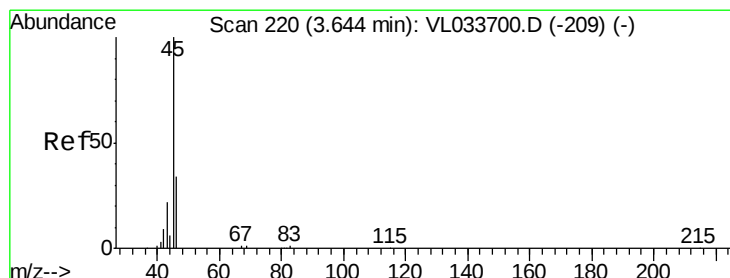
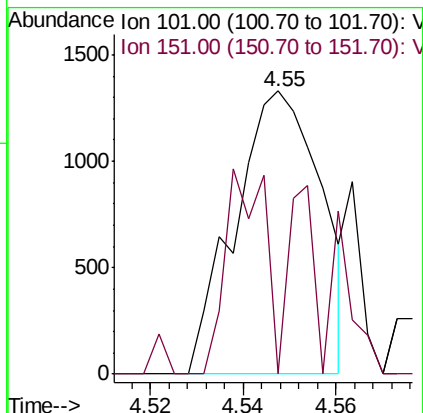
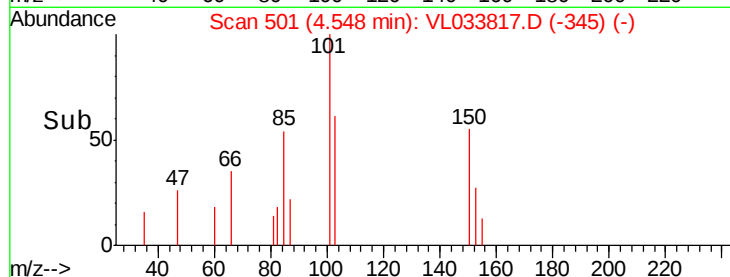
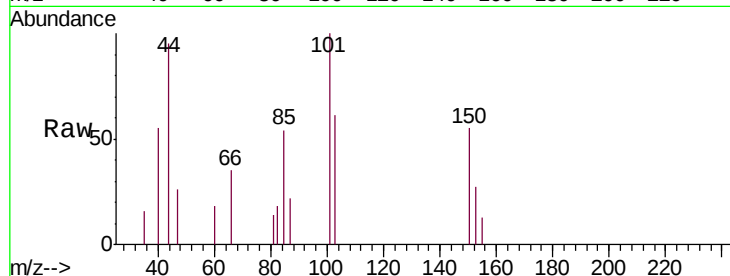
BPS1-ODA-3004-04DL

Tgt Ion: 101 Resp: 1714

Ion Ratio Lower Upper

101 100

151 67.8 58.2 87.4



#13

Ethanol

Concen: 0.014 ppbv

RT: 3.63 min Scan# 216

Delta R.T. -0.01 min

Lab File: VL033817.D

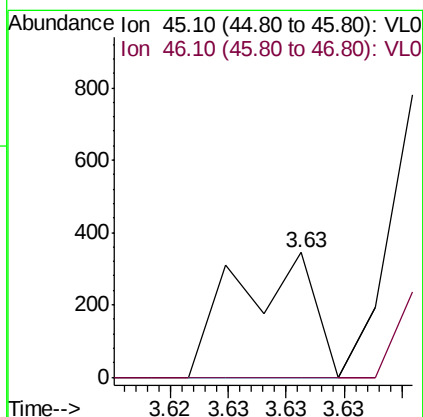
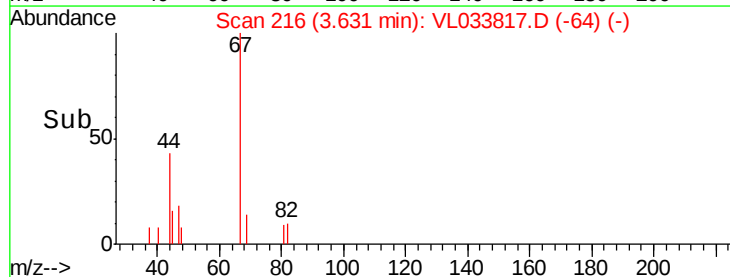
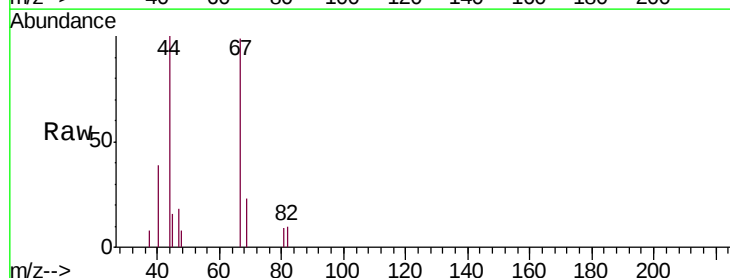
Acq: 29 May 2019 00:32

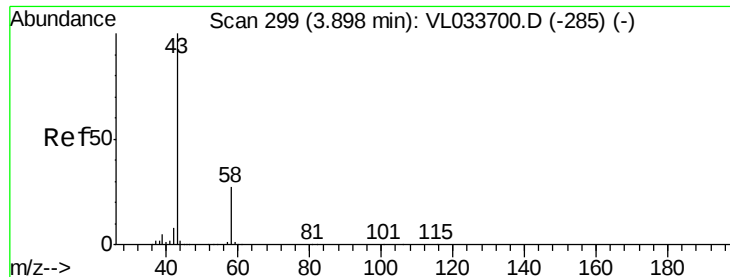
Tgt Ion: 45 Resp: 160

Ion Ratio Lower Upper

45 100

46 0.0 14.8 59.0#





#15

Acetone

Concen: 0.593 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033817.D

Acq: 29 May 2019 00:32

Instrument :

MSVOA_L

ClientSampleId :

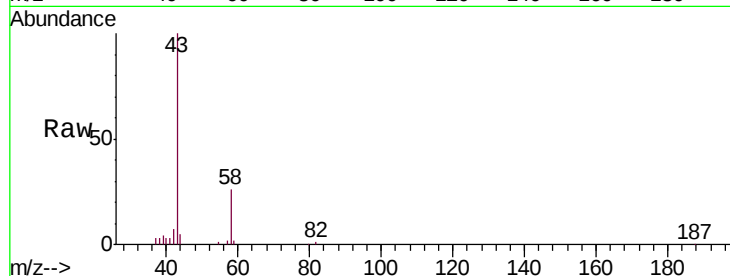
BPS1-ODA-3004-04DL

Tgt Ion: 43 Resp: 60872

Ion Ratio Lower Upper

43 100

58 27.4 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

40000

30000

20000

10000

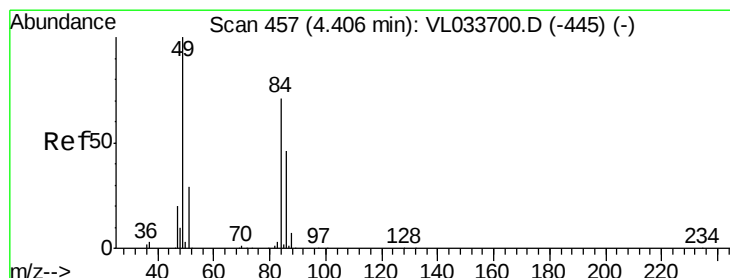
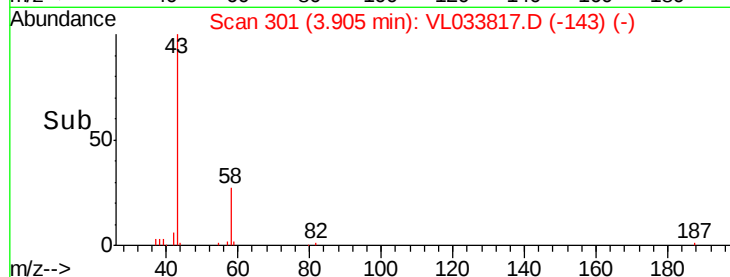
0

Time-->

3.85

3.90

3.95



#20

Methylene Chloride

Concen: 0.228 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033817.D

Acq: 29 May 2019 00:32

Tgt Ion: 84 Resp: 8998

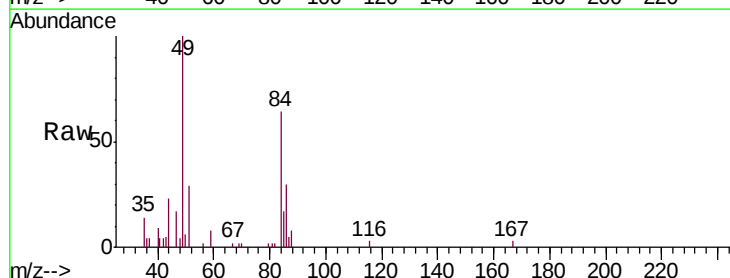
Ion Ratio Lower Upper

84 100

49 152.4 112.8 169.2

51 44.9 33.4 50.0

86 47.1 51.7 77.5#



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

15000

10000

5000

0

Time-->

4.36

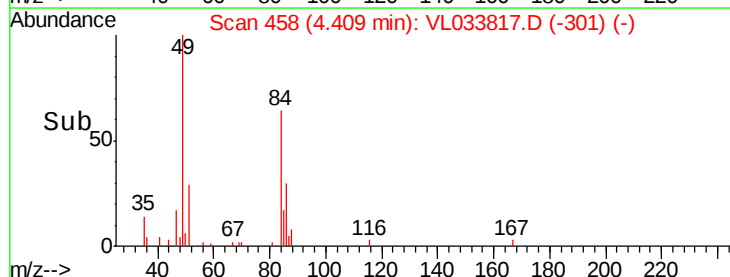
4.38

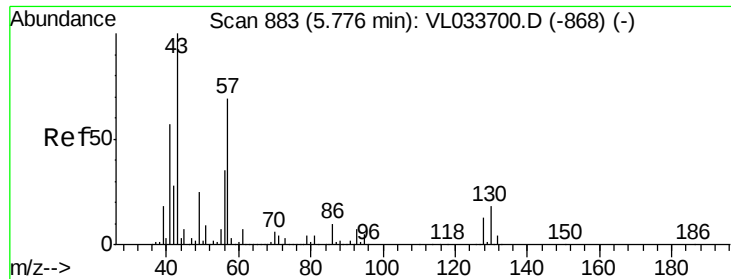
4.40

4.41

4.42

4.44

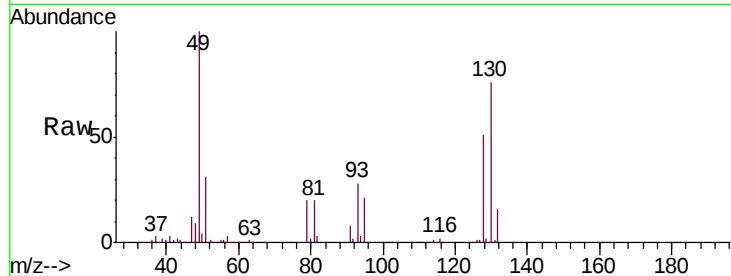




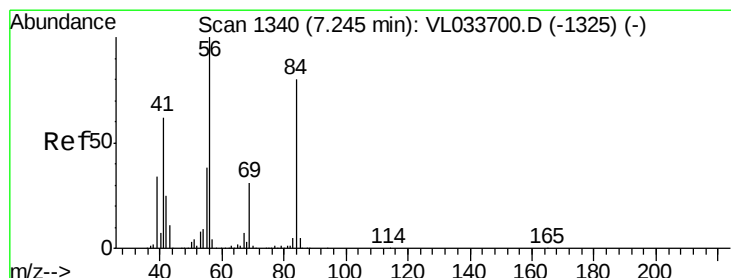
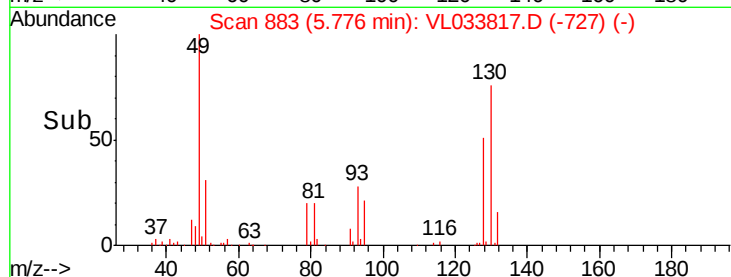
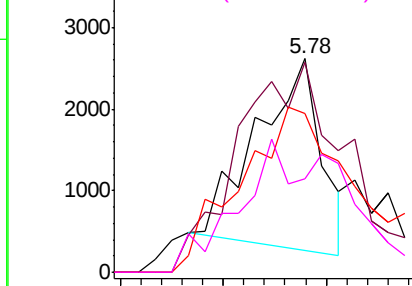
#26
Hexane
Concen: 0.026 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033817.D
Acq: 29 May 2019 00:32

Instrument :
MSVOA_L
ClientSampleId :
BPS1-ODA-3004-04DL

Tgt Ion: 57 Resp: 2004
Ion Ratio Lower Upper
57 100
41 191.9 69.8 104.6#
43 177.2 181.8 272.6#
56 115.1 42.1 63.1#

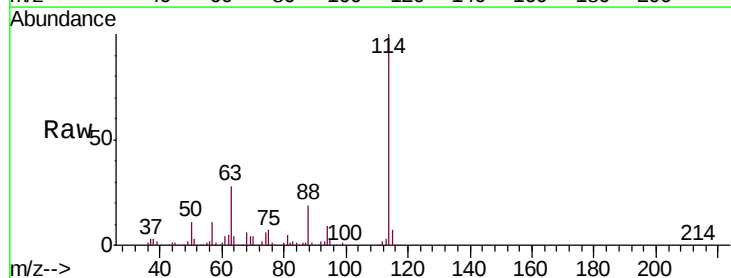


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

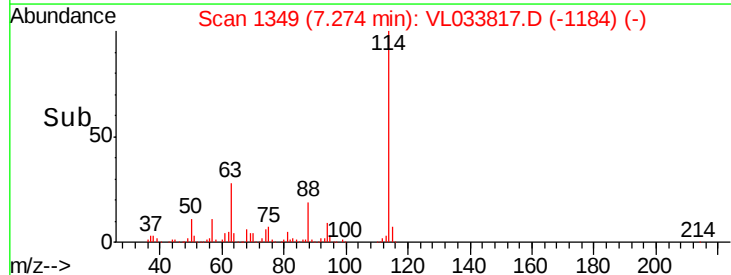
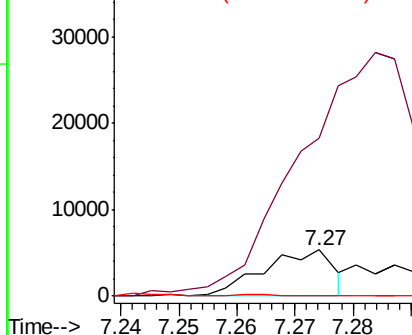


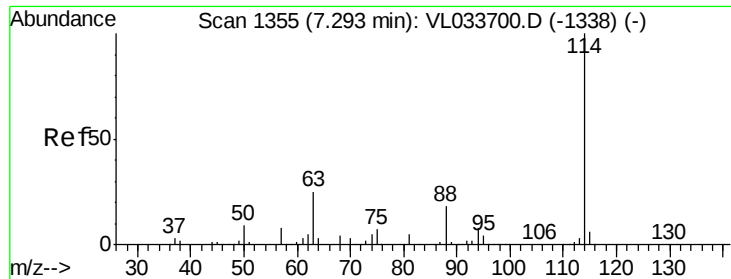
#30
Cyclohexane
Concen: 0.069 ppbv
RT: 7.27 min Scan# 1349
Delta R.T. 0.03 min
Lab File: VL033817.D
Acq: 29 May 2019 00:32

Tgt Ion: 84 Resp: 4506
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 4.5 66.0 99.0#



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

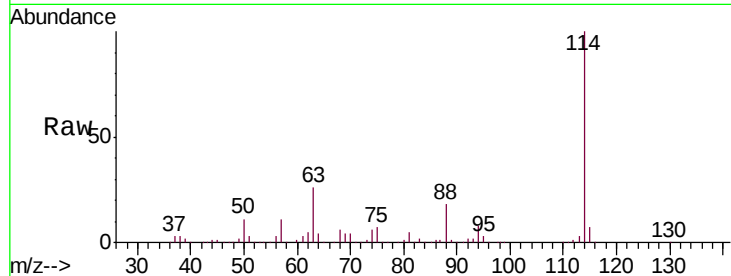




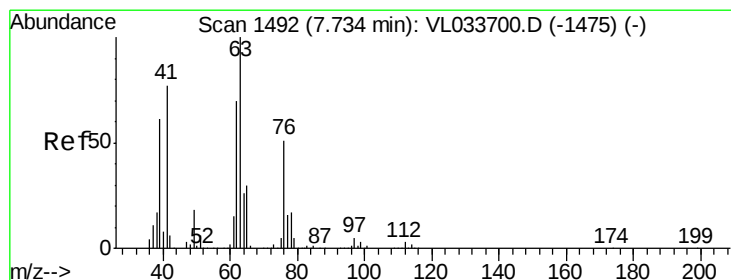
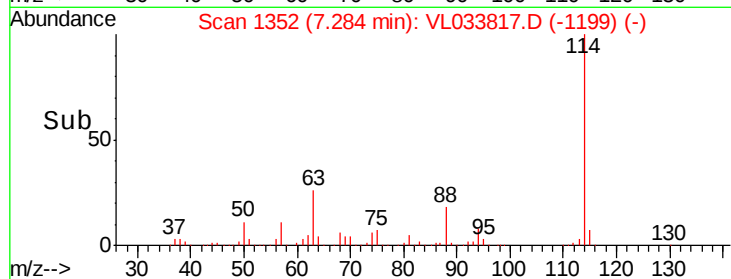
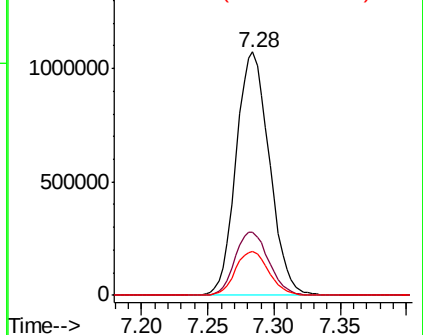
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033817.D
 Acq: 29 May 2019 00:32

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-ODA-3004-04DL

Tgt Ion: 114 Resp: 1877012
 Ion Ratio Lower Upper
 114 100
 63 26.5 20.9 31.3
 88 18.3 14.3 21.5

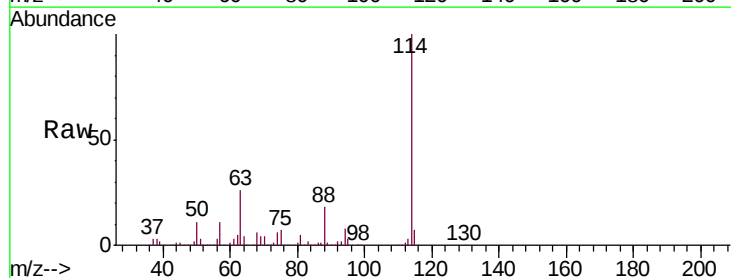


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

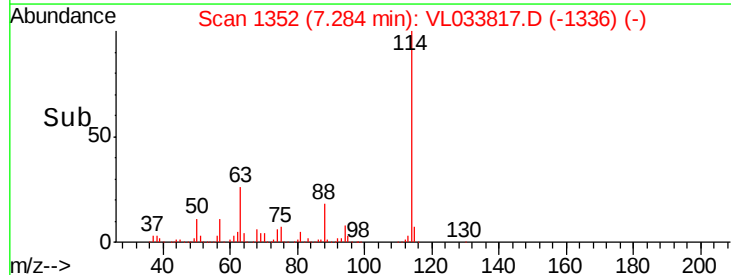
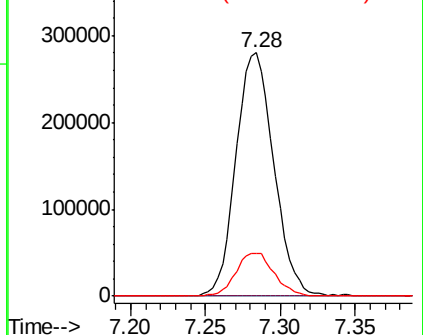


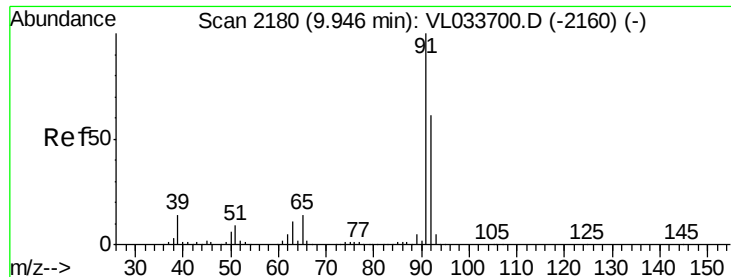
#39
 1,2-Dichloropropane
 Concen: 7.780 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.45 min
 Lab File: VL033817.D
 Acq: 29 May 2019 00:32

Tgt Ion: 63 Resp: 495253
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.5 92.3#
 62 17.3 56.2 84.4#



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





#53

Toluene

Concen: 0.053 ppbv

RT: 9.93 min Scan# 2175

Delta R.T. -0.02 min

Lab File: VL033817.D

Acq: 29 May 2019 00:32

Instrument :

MSVOA_L

ClientSampleId :

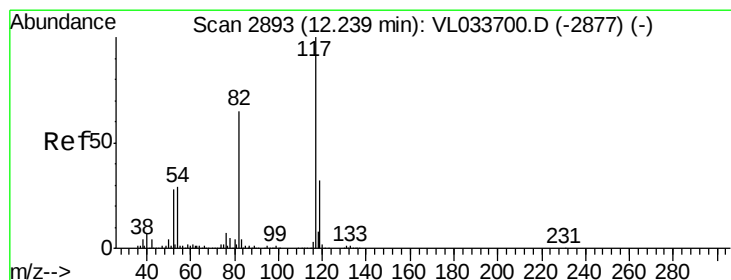
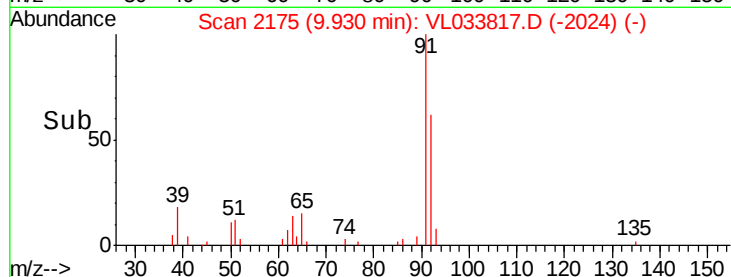
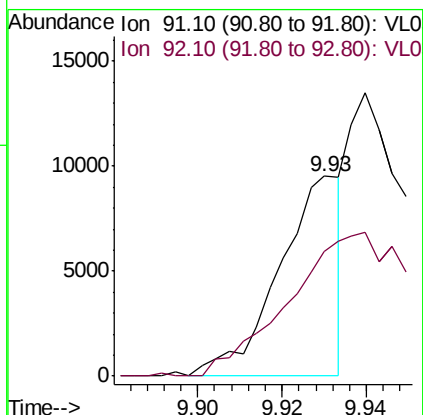
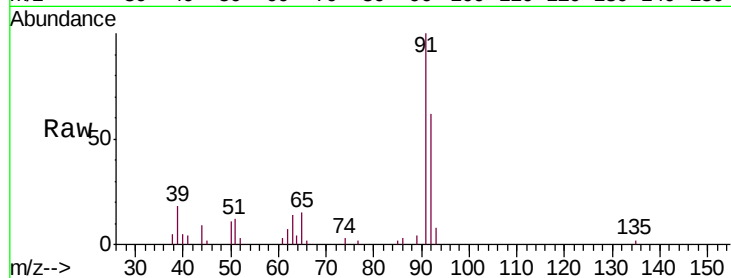
BPS1-ODA-3004-04DL

Tgt Ion: 91 Resp: 9739

Ion Ratio Lower Upper

91 100

92 0.0 47.6 71.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL033817.D

Acq: 29 May 2019 00:32

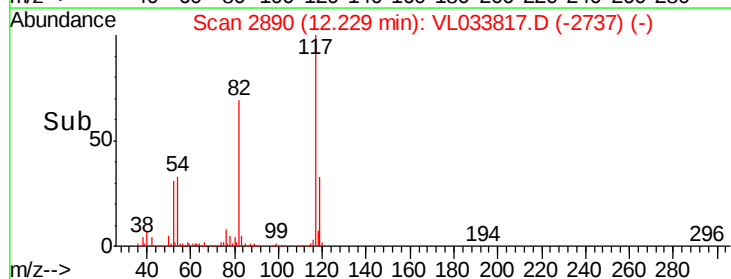
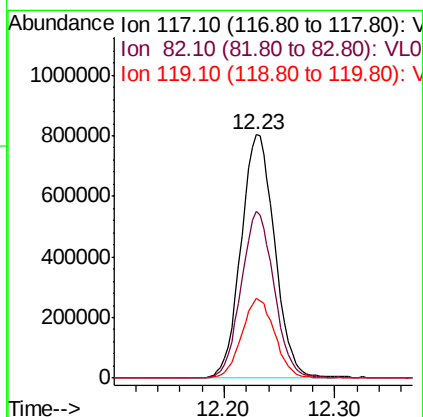
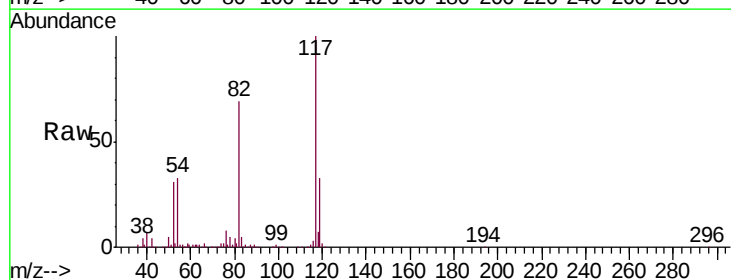
Tgt Ion: 117 Resp: 1696730

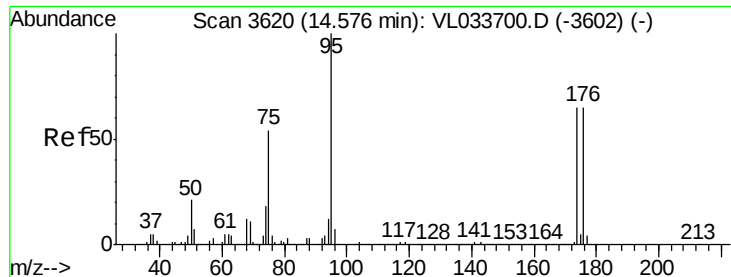
Ion Ratio Lower Upper

117 100

82 67.6 49.4 74.0

119 32.4 24.9 37.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.746 ppbv

RT: 14.57 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL033817.D

Acq: 29 May 2019 00:32

Instrument :

MSVOA_L

ClientSampleId :

BPS1-ODA-3004-04DL

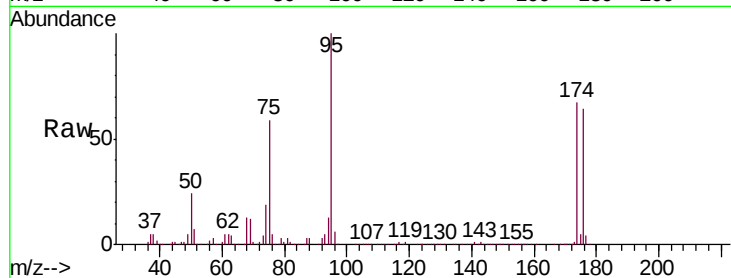
Tgt Ion: 95 Resp: 1478179

Ion Ratio Lower Upper

95 100

174 65.2 53.9 80.9

175 4.8 3.8 5.8



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

