

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121718\
 Data File : VL033017.D
 Acq On : 18 Dec 2018 5:05
 Operator : SY/AP
 Sample : J6444-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 18 09:18:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1200784	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2919935	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2106452	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2281464	14.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	146.60%#

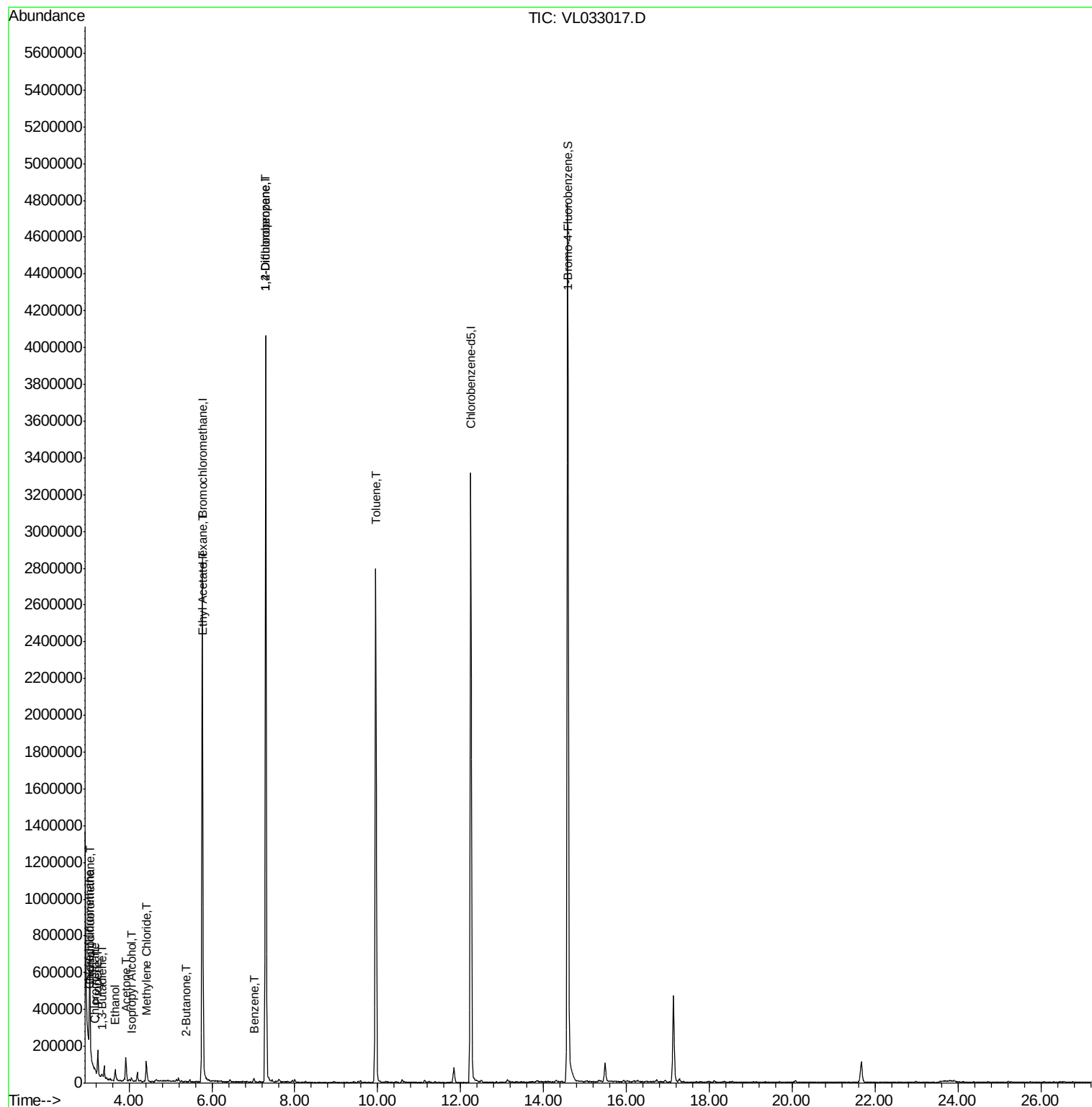
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	11375	0.071	ppbv	90
3) Chlorodifluoromethane	3.02	51	9860	0.108	ppbv	99
4) Chloromethane	3.18	50	10072	0.190	ppbv	97
9) Propene	3.24	41	36680	1.020	ppbv	95
13) Ethanol	3.67	45	58820	4.751	ppbv	91
15) Acetone	3.92	43	118802	1.153	ppbv	100
16) 1,3-Butadiene	3.35	39	3330	0.081	ppbv #	38
19) Isopropyl Alcohol	4.06	45	11282	0.174	ppbv #	1
20) Methylene Chloride	4.42	84	36424	0.723	ppbv	87
25) Ethyl Acetate	5.79	43	12754	0.052	ppbv #	88
26) Hexane	5.78	57	27798	0.247	ppbv #	47
34) 2-Butanone	5.36	43	6237	0.049	ppbv	93
36) Benzene	7.01	78	6515	0.030	ppbv #	86
39) 1,2-Dichloropropane	7.30	63	693613	8.516	ppbv #	21
53) Toluene	9.95	91	2196060	9.641	ppbv	99

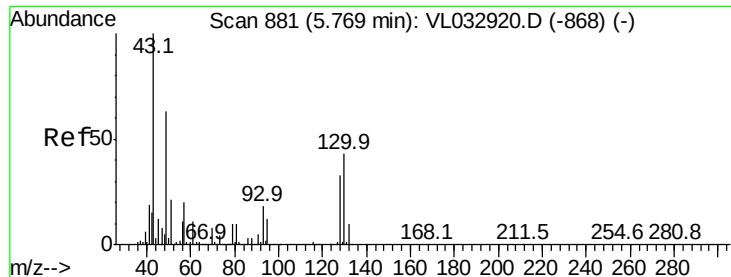
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 18 09:18:42 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
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QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033017.D

Acq: 18 Dec 2018 5:05

Instrument :

MSVOA_L

ClientSampleId :

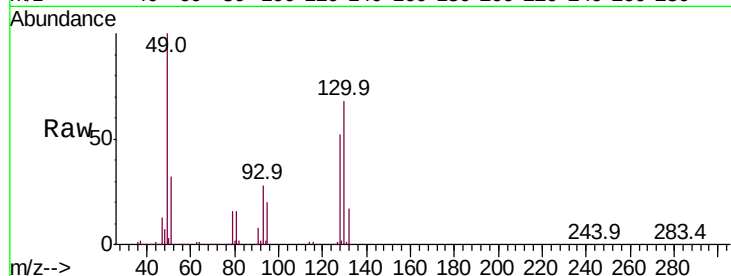
Tot Ion: 49 Resp: 1200784

Ion Ratio Lower Upper

49 100

128 54.3 26.3 78.8

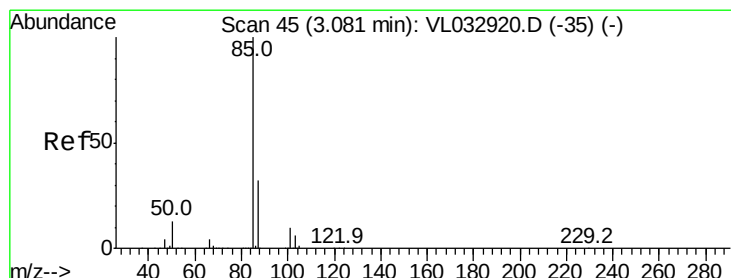
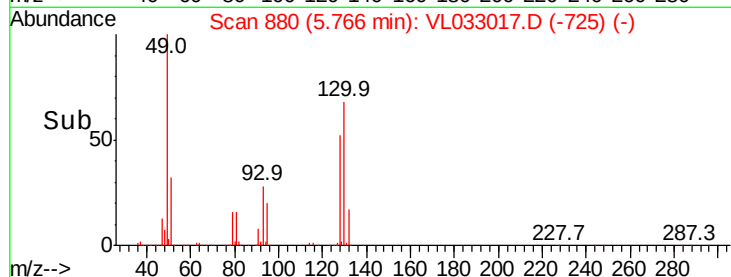
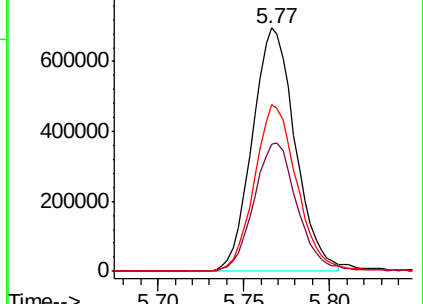
130 69.1 33.9 101.7



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: 0.071 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033017.D

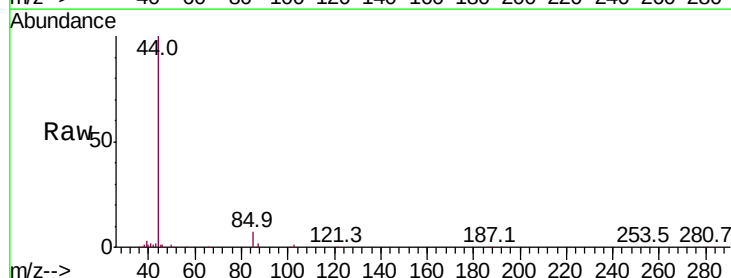
Acq: 18 Dec 2018 5:05

Tgt Ion: 85 Resp: 11375

Ion Ratio Lower Upper

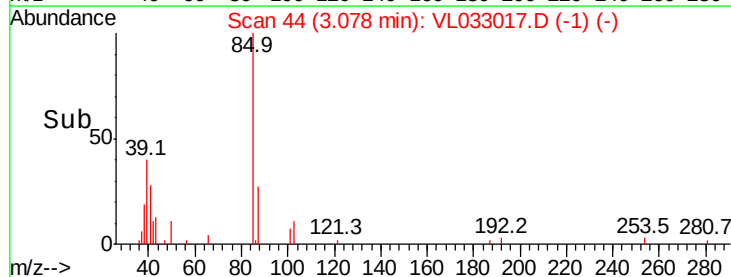
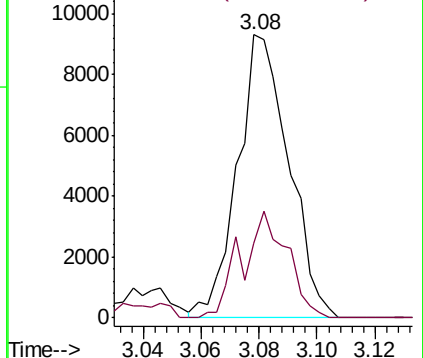
85 100

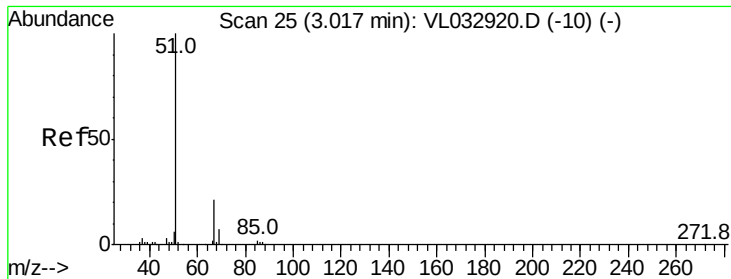
87 26.6 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.108 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.01 min

Lab File: VL033017.D

Acq: 18 Dec 2018 5:05

Instrument :

MSVOA_L

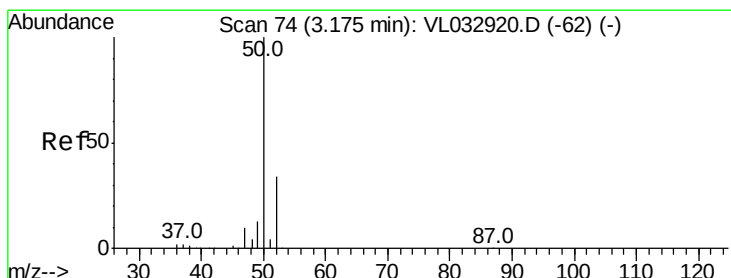
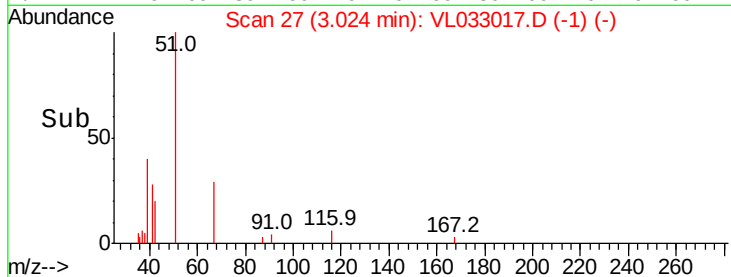
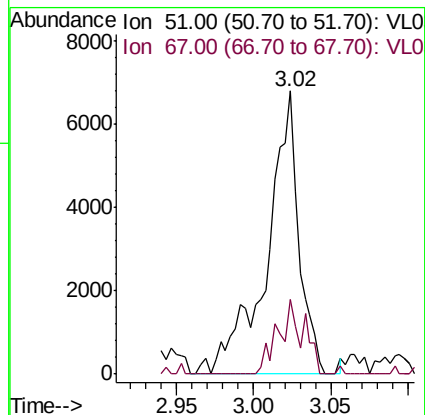
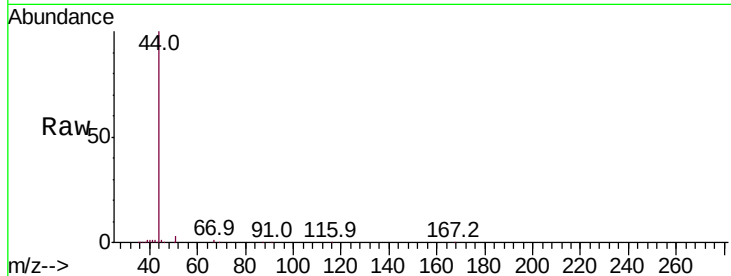
ClientSampleId :

Tot Ion: 51 Resp: 9860

Ion Ratio Lower Upper

51 100

67 21.4 16.8 25.2



#4

Chloromethane

Concen: 0.190 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL033017.D

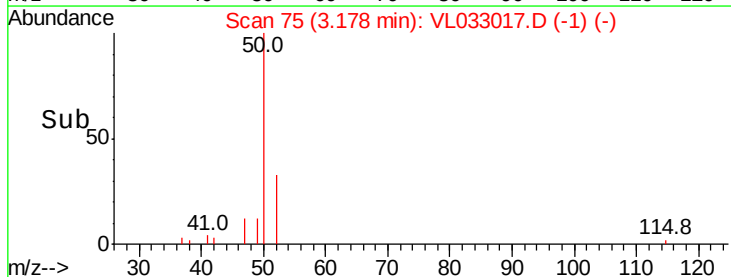
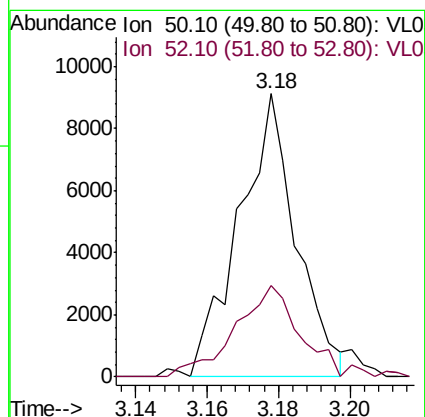
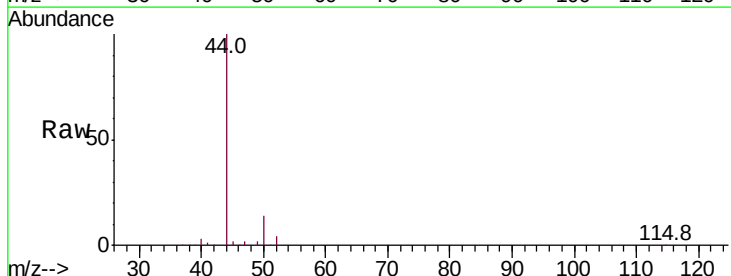
Acq: 18 Dec 2018 5:05

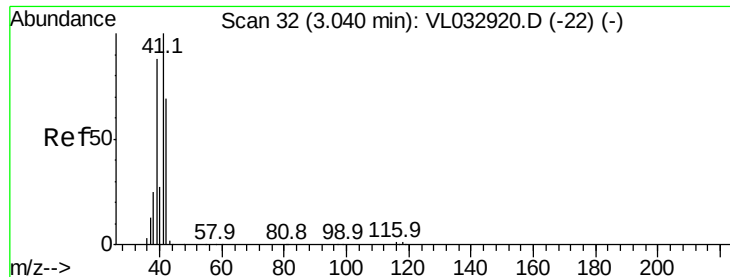
Tgt Ion: 50 Resp: 10072

Ion Ratio Lower Upper

50 100

52 32.2 27.3 40.9





#9

Propene

Concen: 1.020 ppbv

RT: 3.24 min Scan# 95

Delta R.T. 0.20 min

Lab File: VL033017.D

Acq: 18 Dec 2018 5:05

Instrument :

MSVOA_L

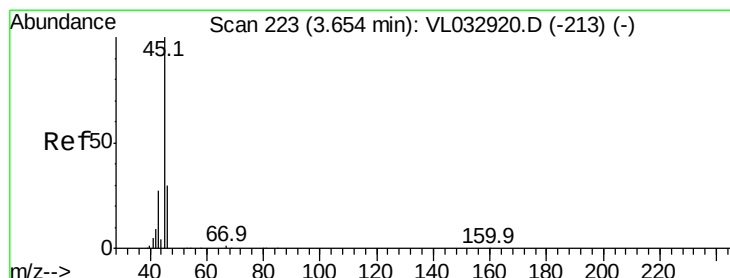
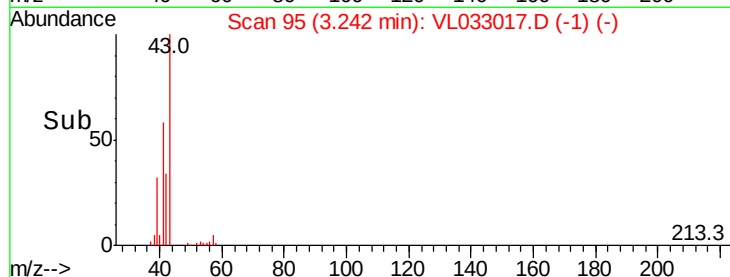
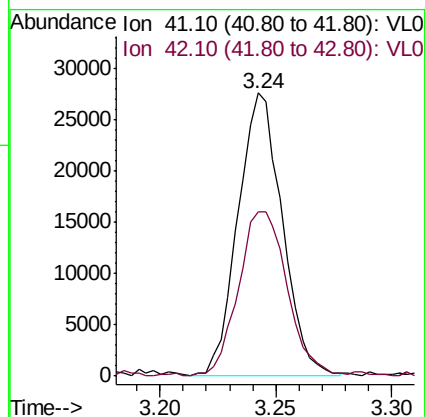
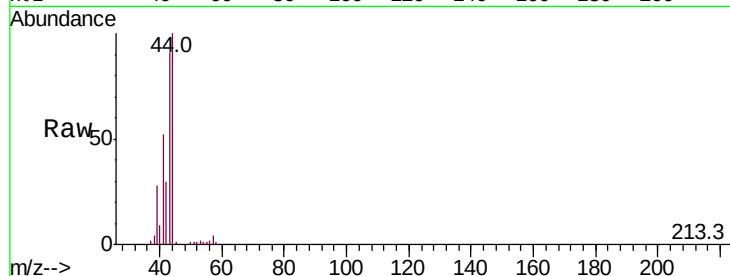
ClientSampleId :

Tot Ion: 41 Resp: 36680

Ion Ratio Lower Upper

41 100

42 65.9 56.2 84.2



#13

Ethanol

Concen: 4.751 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.01 min

Lab File: VL033017.D

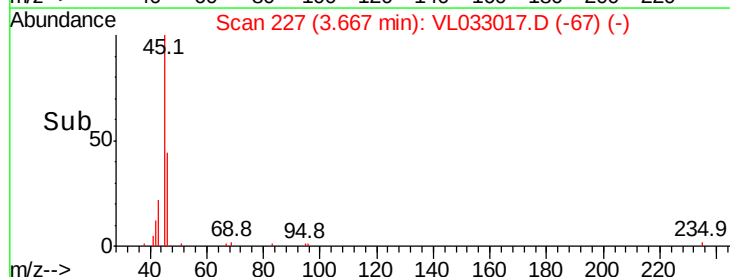
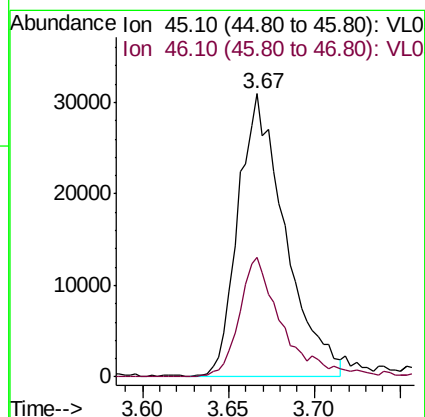
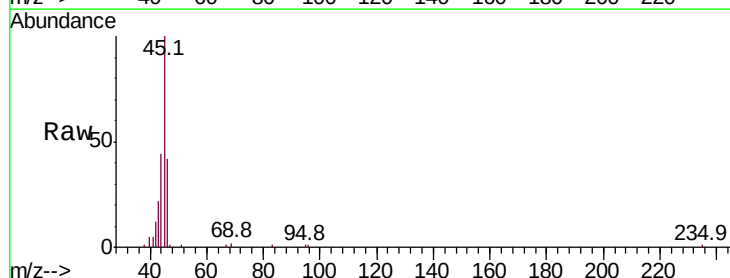
Acq: 18 Dec 2018 5:05

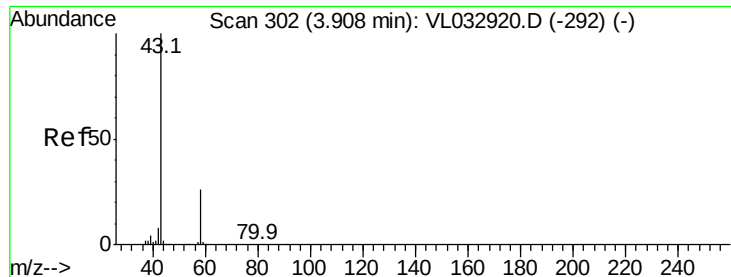
Tgt Ion: 45 Resp: 58820

Ion Ratio Lower Upper

45 100

46 39.8 13.8 55.4





#15

Acetone

Concen: 1.153 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL033017.D

Acq: 18 Dec 2018 5:05

Instrument :

MSVOA_L

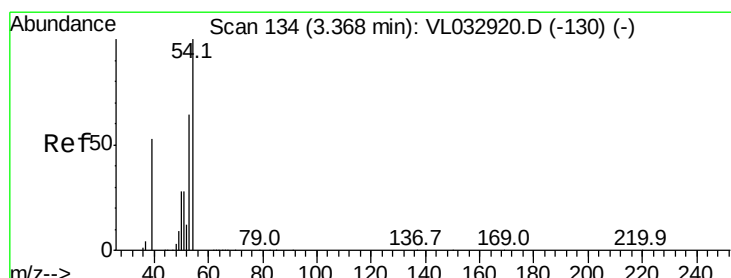
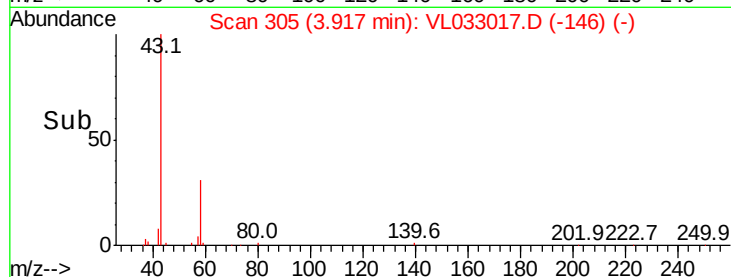
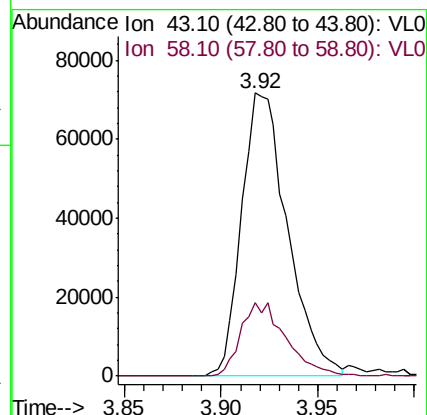
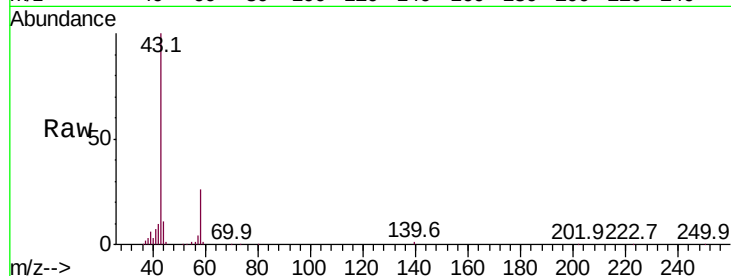
ClientSampleId :

Tot Ion: 43 Resp: 118802

Ion Ratio Lower Upper

43 100

58 25.7 20.6 30.8



#16

1,3-Butadiene

Concen: 0.081 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.02 min

Lab File: VL033017.D

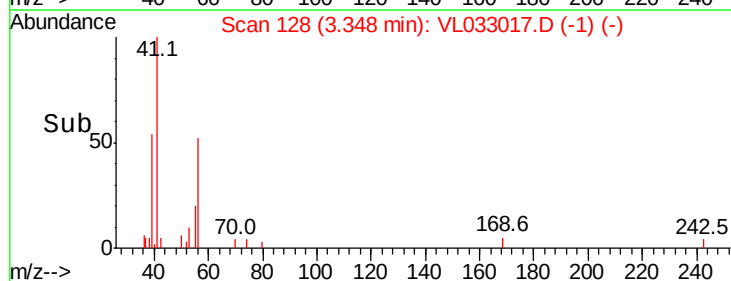
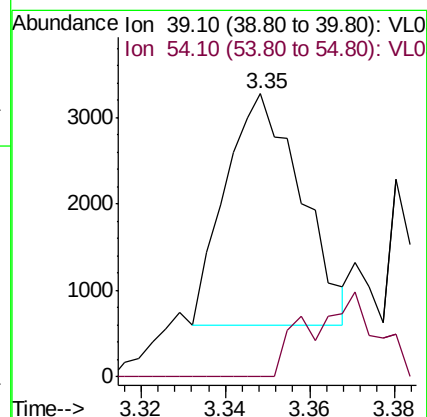
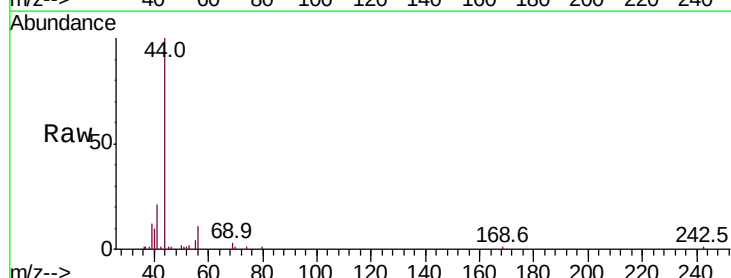
Acq: 18 Dec 2018 5:05

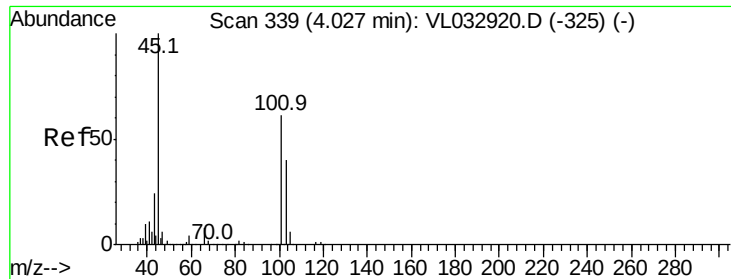
Tgt Ion: 39 Resp: 3330

Ion Ratio Lower Upper

39 100

54 32.0 72.7 109.1#





#19

Isopropyl Alcohol

Concen: 0.174 ppbv

RT: 4.06 min Scan# 349

Delta R.T. 0.03 min

Lab File: VL033017.D

Acq: 18 Dec 2018 5:05

Instrument :

MSVOA_L

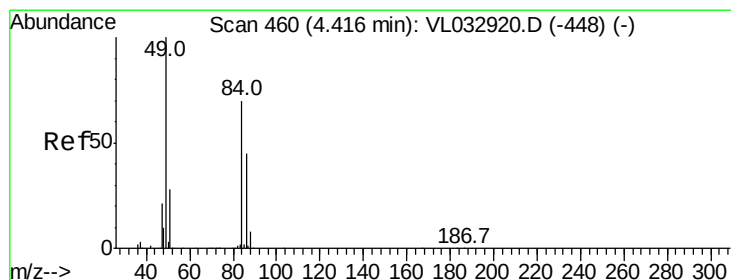
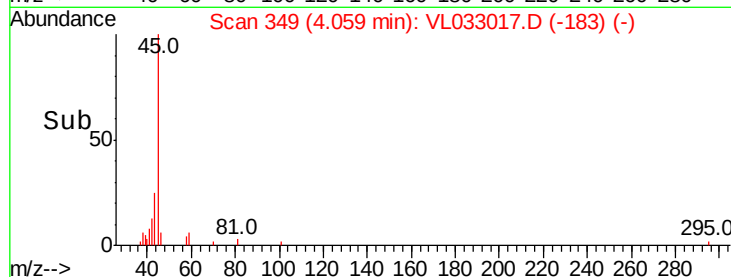
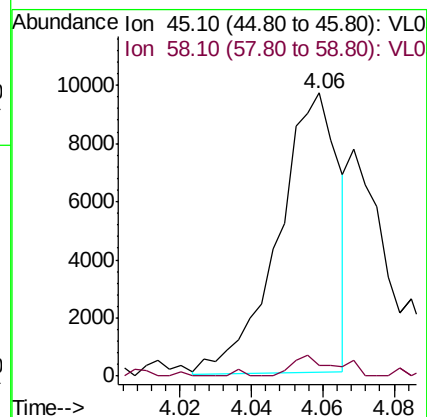
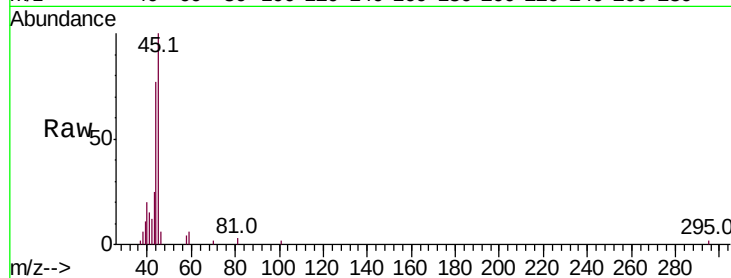
ClientSampled :

Tot Ion: 45 Resp: 11282

Ion Ratio Lower Upper

45 100

58 268.5 1.4 2.2#



#20

Methylene Chloride

Concen: 0.723 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL033017.D

Acq: 18 Dec 2018 5:05

Tgt Ion: 84 Resp: 36424

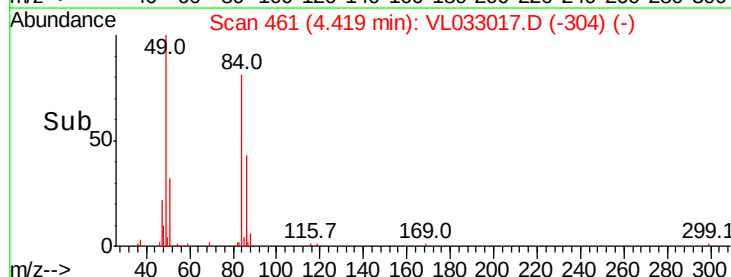
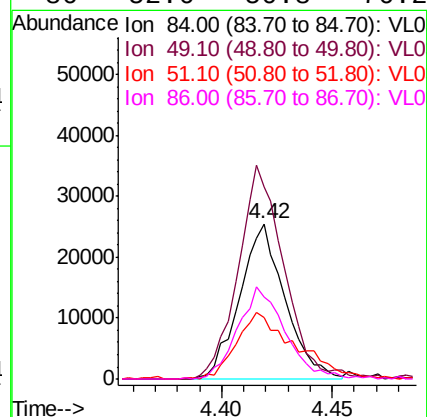
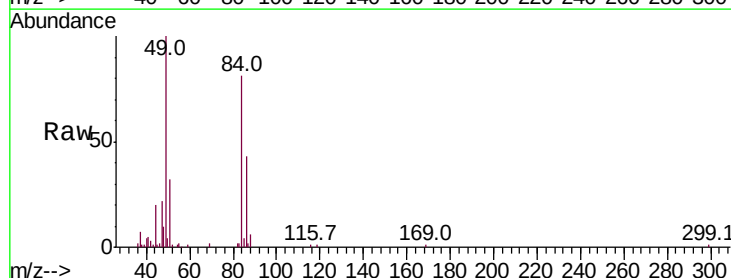
Ion Ratio Lower Upper

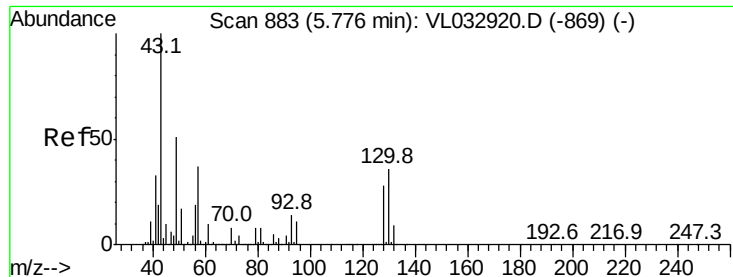
84 100

49 123.7 113.8 170.8

51 39.2 31.8 47.8

86 52.6 50.8 76.2

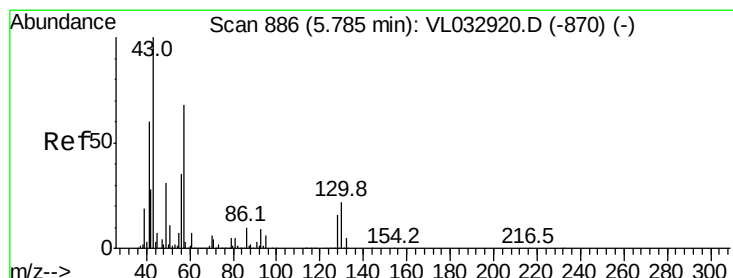
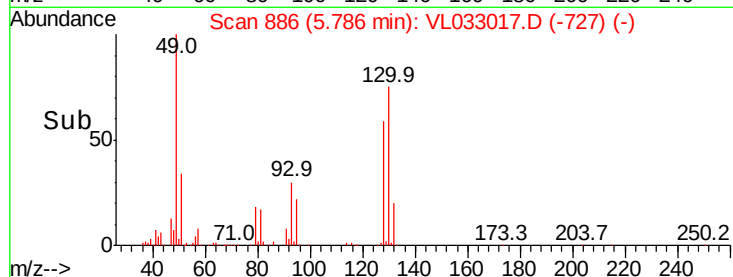
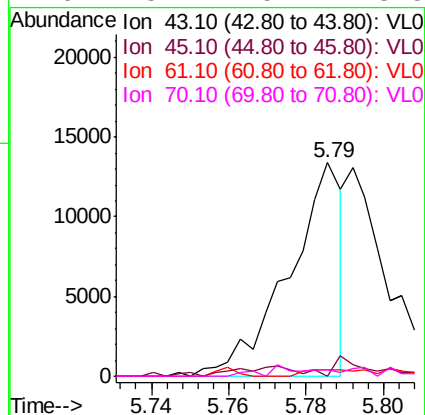
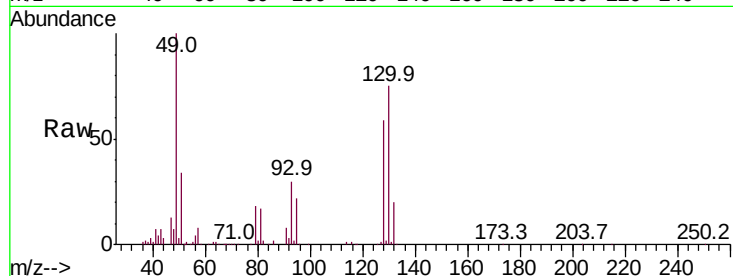




#25
Ethyl Acetate
Concen: 0.052 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL033017.D
Acq: 18 Dec 2018 5:05

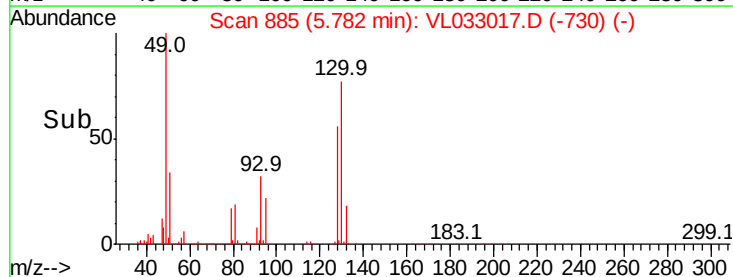
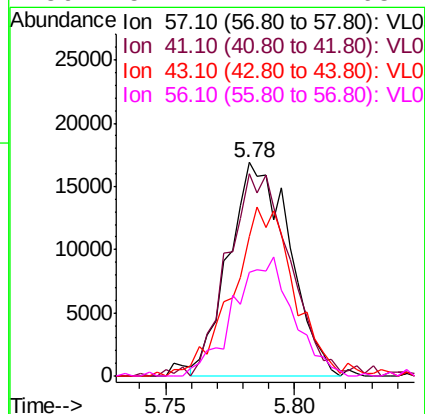
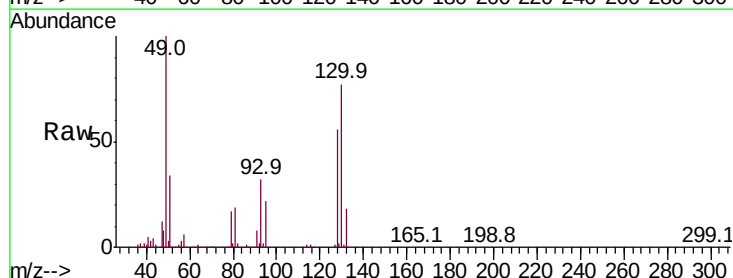
Instrument :
MSVOA_L
ClientSampleId :

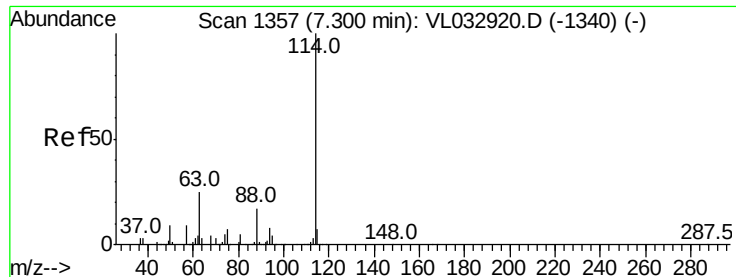
Tot Ion:	43	Resp:	12754
Ion	Ratio	Lower	Upper
43	100		
45	6.5	7.8	11.6#
61	1.6	7.4	11.2#
70	8.4	5.7	8.5



#26
Hexane
Concen: 0.247 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033017.D
Acq: 18 Dec 2018 5:05

Tgt Ion:	57	Resp:	27798
Ion	Ratio	Lower	Upper
57	100		
41	99.4	72.2	108.2
43	82.0	171.9	257.9#
56	54.1	42.2	63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.00 min

Lab File: VL033017.D

Acq: 18 Dec 2018 5:05

Instrument :

MSVOA_L

ClientSampleId :

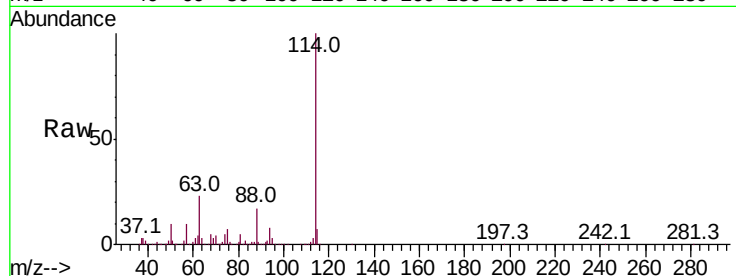
Tot Ion:114 Resp: 2919935

Ion Ratio Lower Upper

114 100

63 23.8 20.1 30.1

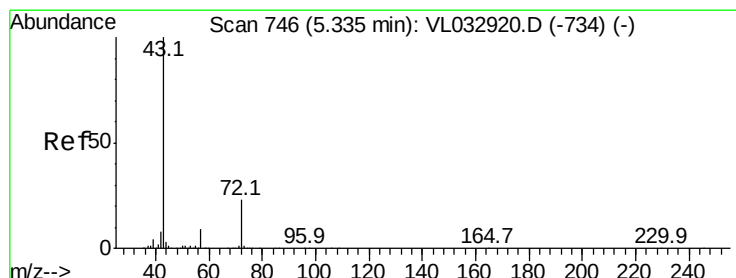
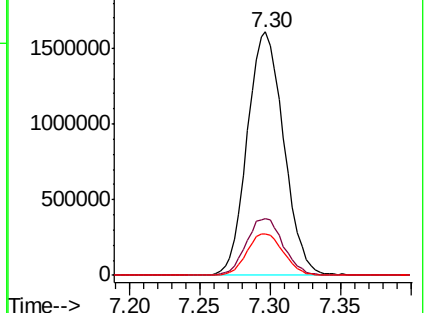
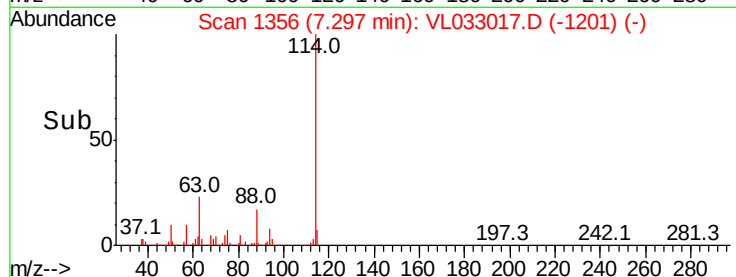
88 17.2 14.2 21.4



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: 0.049 ppbv

RT: 5.36 min Scan# 755

Delta R.T. 0.03 min

Lab File: VL033017.D

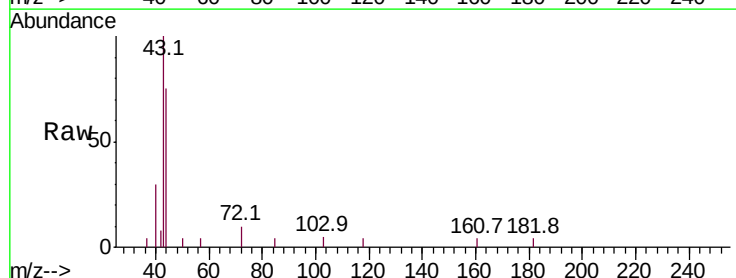
Acq: 18 Dec 2018 5:05

Tgt Ion: 43 Resp: 6237

Ion Ratio Lower Upper

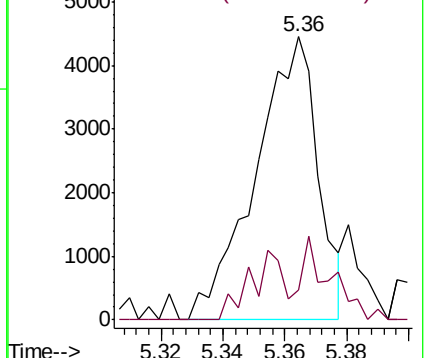
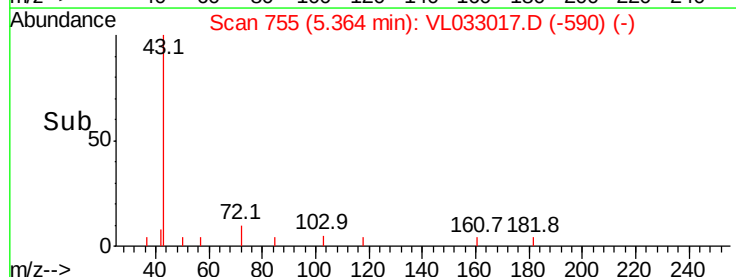
43 100

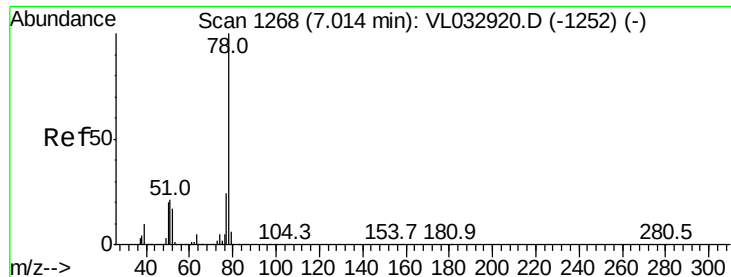
72 26.9 18.8 28.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.030 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VL033017.D

Acq: 18 Dec 2018 5:05

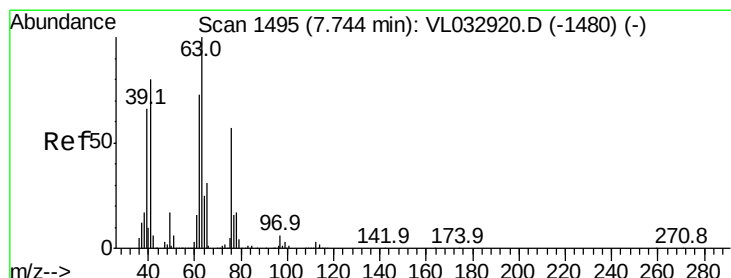
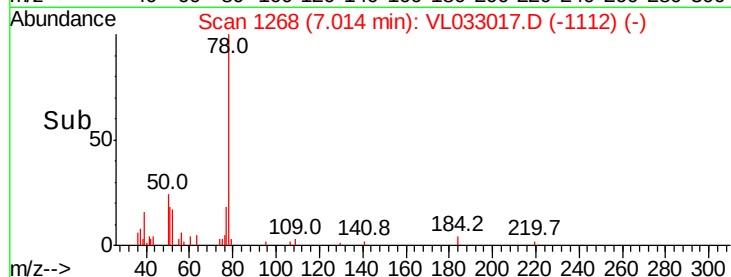
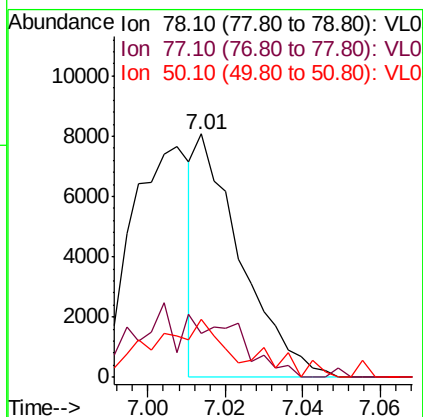
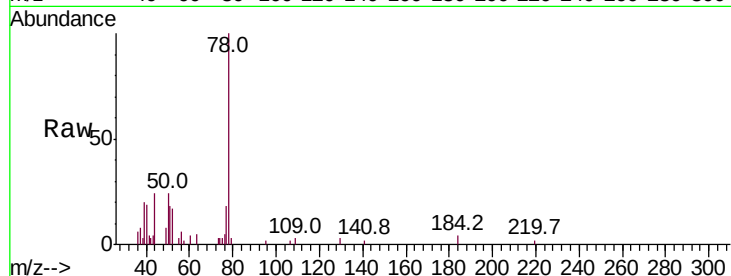
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 78 Resp: 6515

Ion	Ratio	Lower	Upper
78	100		
77	14.3	18.9	28.3#
50	23.8	16.1	24.1



#39

1,2-Dichloropropane

Concen: 8.516 ppbv

RT: 7.30 min Scan# 1356

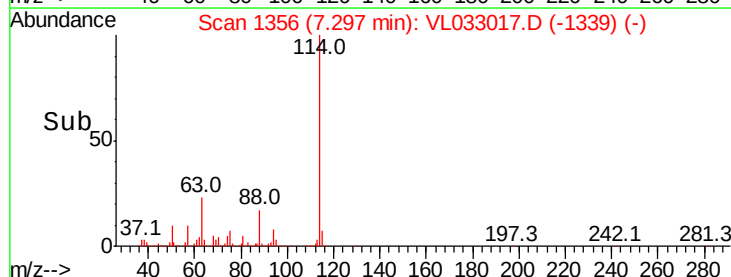
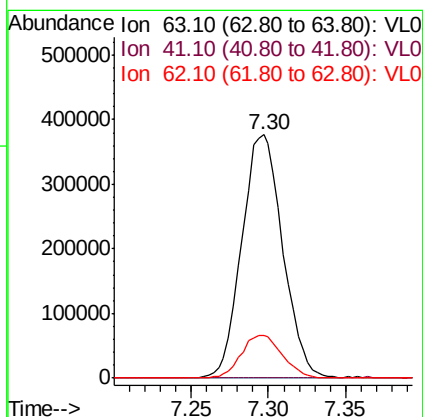
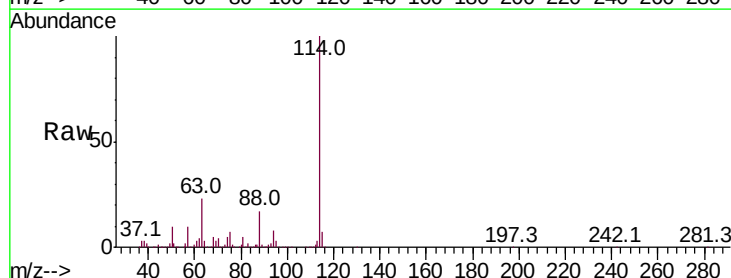
Delta R.T. -0.45 min

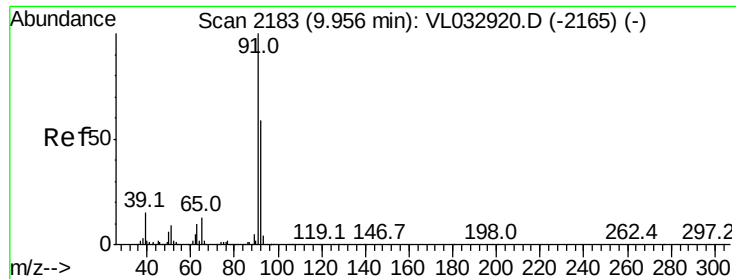
Lab File: VL033017.D

Acq: 18 Dec 2018 5:05

Tgt Ion: 63 Resp: 693613

Ion	Ratio	Lower	Upper
63	100		
41	0.0	63.9	95.9#
62	17.7	58.8	88.2#





#53

Toluene

Concen: 9.641 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL033017.D

Acq: 18 Dec 2018 5:05

Instrument :

MSVOA_L

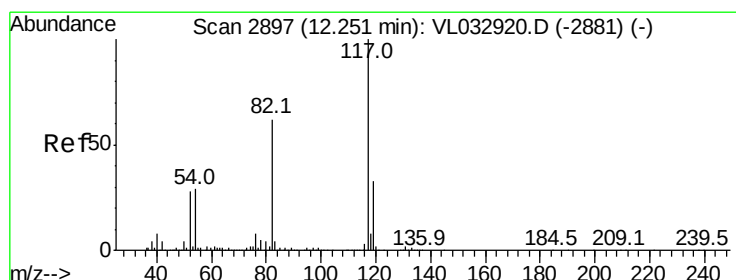
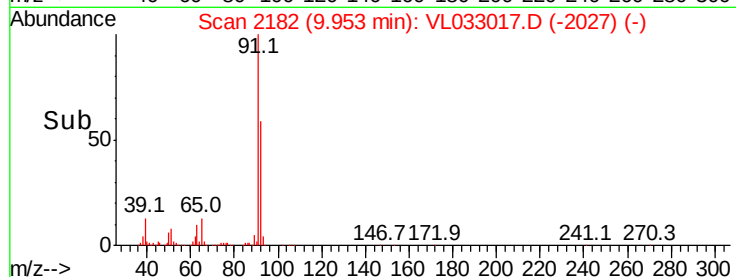
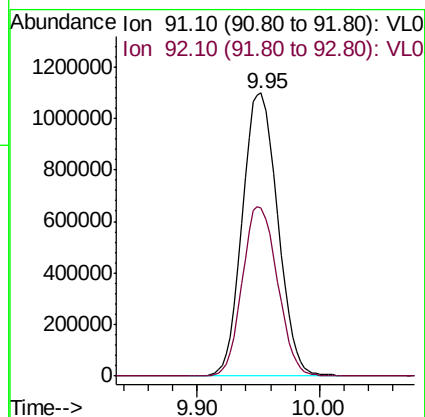
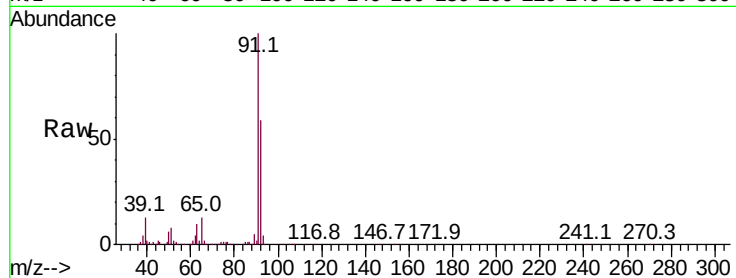
ClientSampled :

Tot Ion: 91 Resp: 2196060

Ion Ratio Lower Upper

91 100

92 59.7 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL033017.D

Acq: 18 Dec 2018 5:05

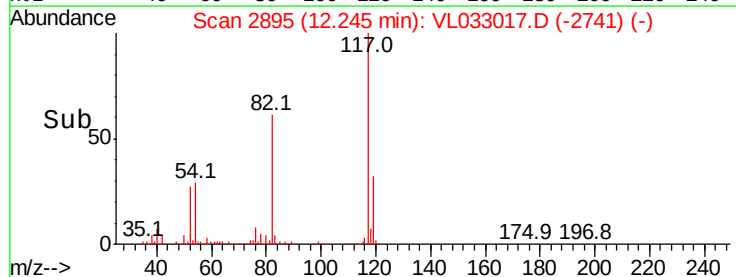
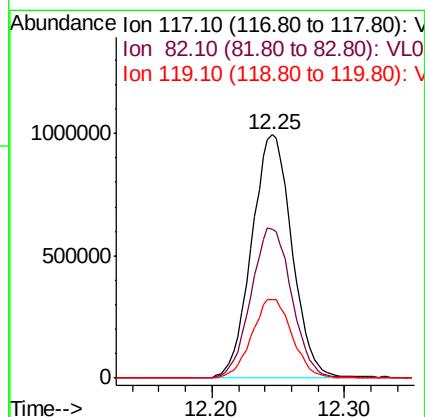
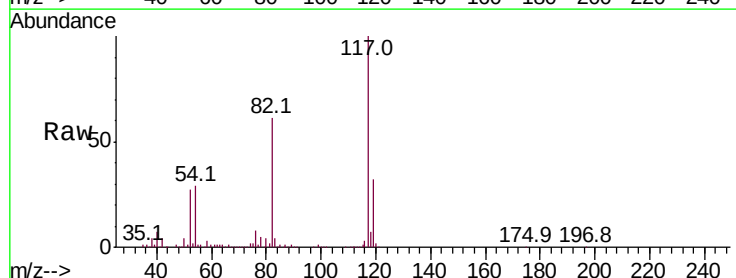
Tgt Ion: 117 Resp: 2106452

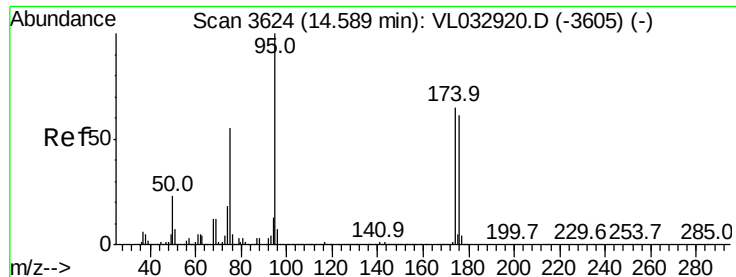
Ion Ratio Lower Upper

117 100

82 62.9 47.8 71.8

119 32.6 43.1 64.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 14.660 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL033017.D

Acq: 18 Dec 2018 5:05

Instrument :

MSVOA_L

ClientSampleId :

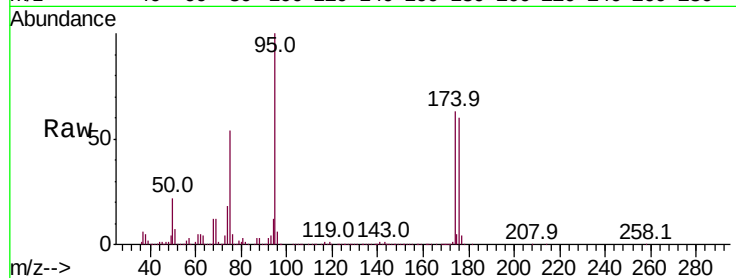
Tot Ion: 95 Resp: 2281464

Ion Ratio Lower Upper

95 100

174 66.1 51.4 77.0

175 4.8 3.8 5.6



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

