

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092718\
 Data File : VL032555.D
 Acq On : 27 Sep 2018 18:46
 Operator : SY/AP
 Sample : J5136-02 1.1X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 247

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:57:40 AM

Quant Time: Sep 28 03:26:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 28 03:26:00 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	1332636	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2844581	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.27	117	3201662	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2241305	9.28	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.10	85	43943	0.357	ppbv	93
3) Chlorodifluoromethane	3.03	51	1767234	15.947	ppbv	98
4) Chloromethane	3.19	50	30997	0.480	ppbv	94
9) Propene	3.06	41	128308	2.668	ppbv	99
11) Trichlorofluoromethane	4.02	101	31557m	0.215	ppbv	
13) Ethanol	3.68	45	107962	7.470	ppbv	97
15) Acetone	3.92	43	1207616	10.324	ppbv #	74
19) Isopropyl Alcohol	4.06	45	29487m	0.362	ppbv	
20) Methylene Chloride	4.44	84	189809	3.351	ppbv	99
26) Hexane	5.81	57	178885	1.395	ppbv #	43
34) 2-Butanone	5.35	43	3469039	20.479	ppbv	99
35) Carbon Tetrachloride	7.17	117	14285m	0.072	ppbv	
36) Benzene	7.03	78	25987m	0.113	ppbv	
51) 2-Hexanone	10.31	43	271369	1.232	ppbv #	97
53) Toluene	9.98	91	76948m	0.275	ppbv	
73) 1,3,5-Trimethylbenzene	16.19	105	48510m	0.137	ppbv	
74) 1,2,4-Trimethylbenzene	16.96	105	131600	0.344	ppbv #	71

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

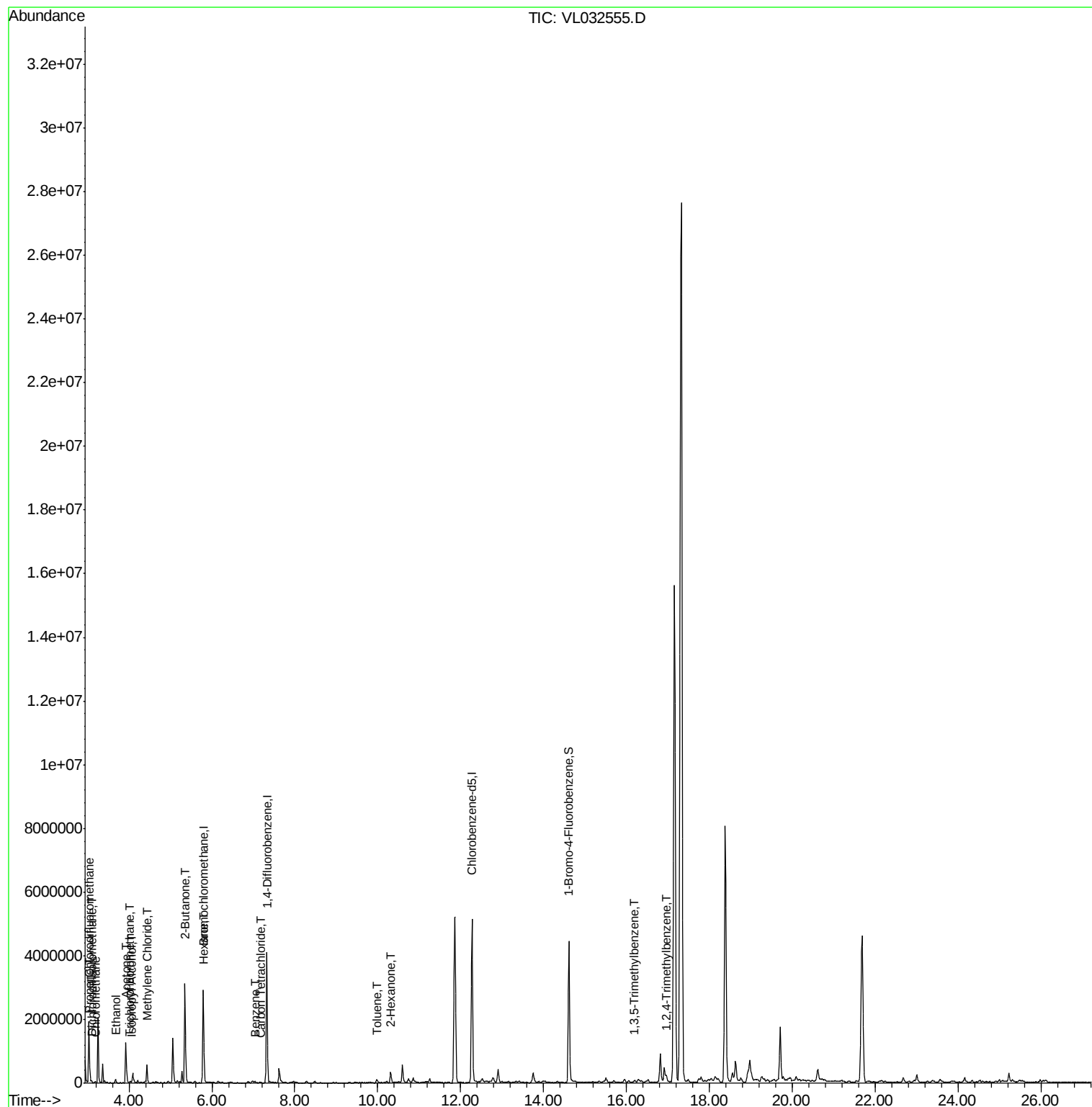
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092718\
Data File : VL032555.D
Acq On : 27 Sep 2018 18:46
Operator : SY/AP
Sample : J5136-02 1.1X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

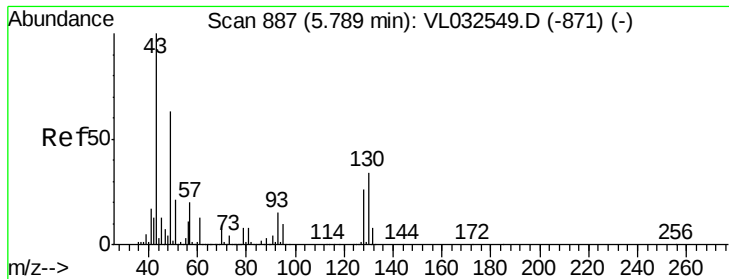
Instrument :
MSVOA_L
ClientSampleId :
247

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Quant Time: Sep 28 03:26:00 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.02 min

Lab File: VL032555.D

Acq: 27 Sep 2018 18:46

Instrument :

MSVOA_L

ClientSampled :

247

Tgt Ion: 49 Resp: 1332636

Ion Ratio Lower Upper

49 100

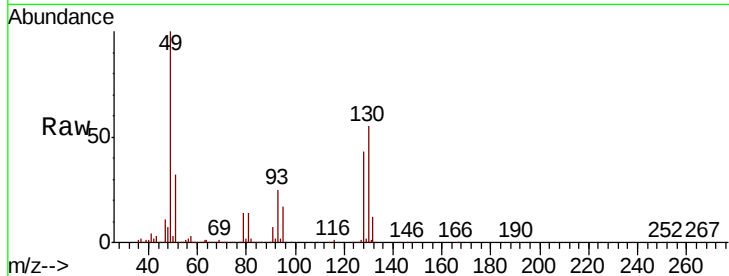
128 43.6 20.7 62.1

130 55.6 26.6 79.7

Manual Integrations
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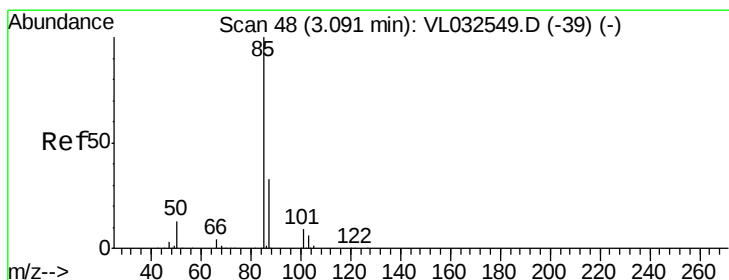
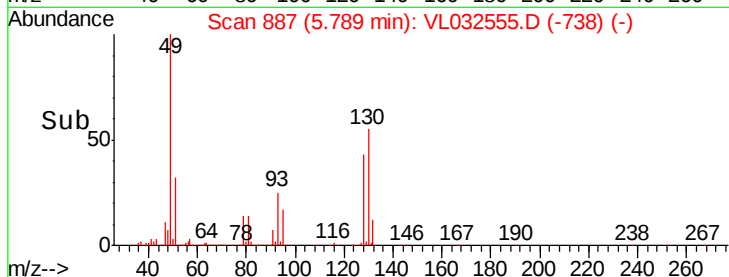
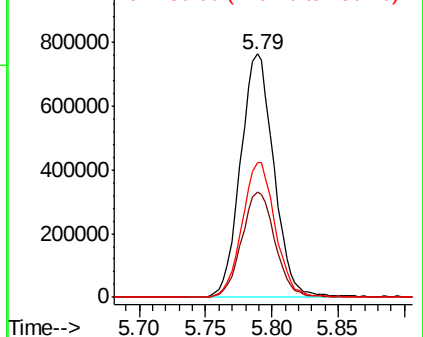
10/1/2018 11:57:40 AM



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: 0.357 ppbv

RT: 3.10 min Scan# 50

Delta R.T. -0.01 min

Lab File: VL032555.D

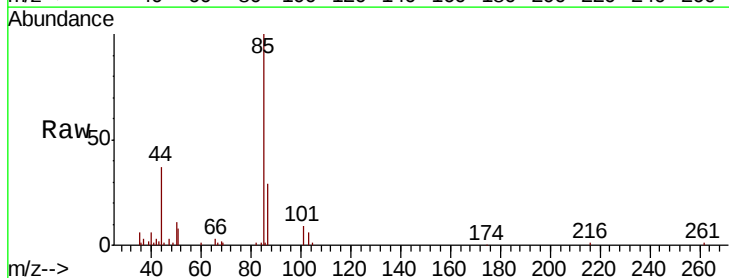
Acq: 27 Sep 2018 18:46

Tgt Ion: 85 Resp: 43943

Ion Ratio Lower Upper

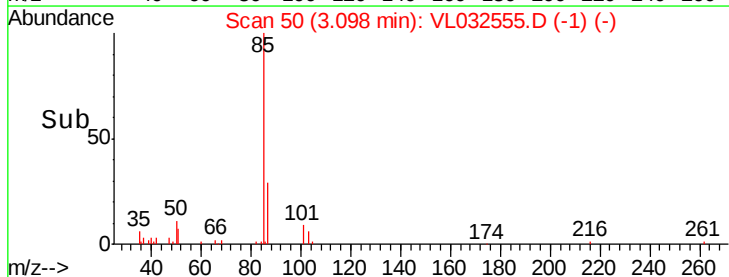
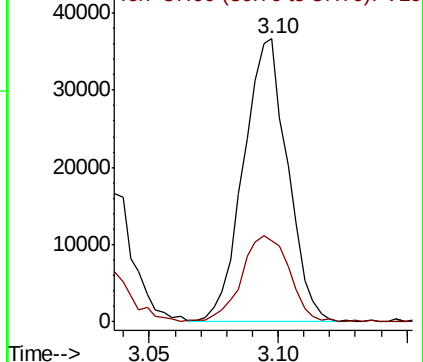
85 100

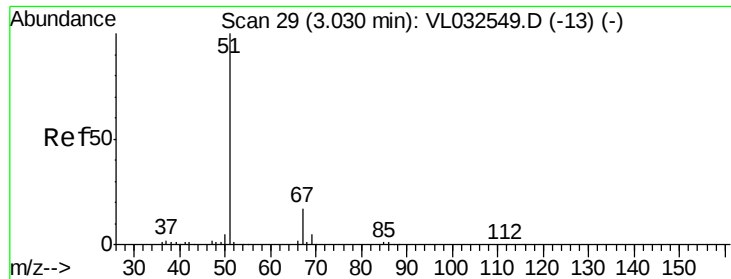
87 28.7 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 15.947 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL032555.D

Acq: 27 Sep 2018 18:46

Instrument :

MSVOA_L

ClientSampleId :

247

Tgt Ion: 51 Resp: 1767234

Ion Ratio Lower Upper

51 100

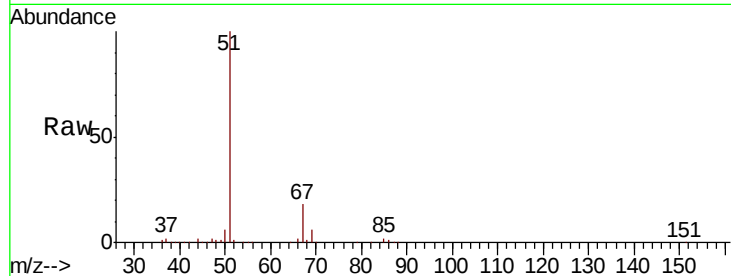
67 18.2 13.8 20.8

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

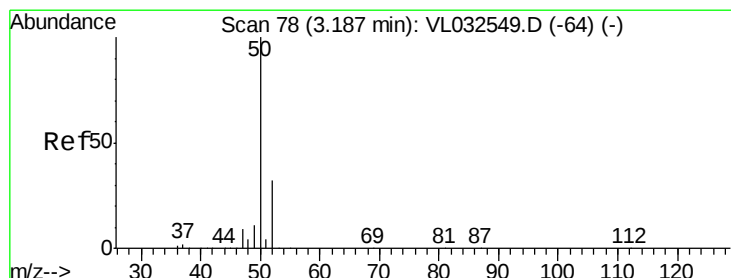
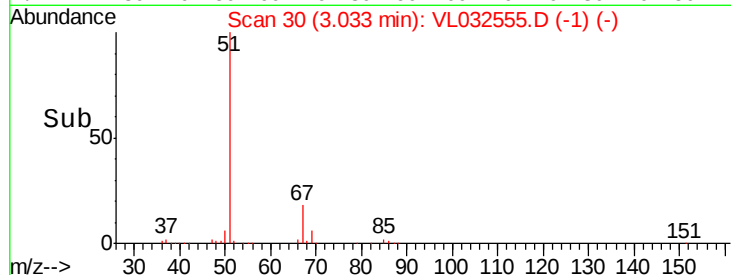
1500000

1000000

500000

0

Time-->



#4

Chloromethane

Concen: 0.480 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032555.D

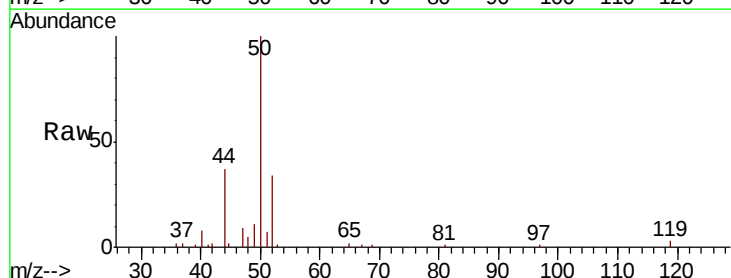
Acq: 27 Sep 2018 18:46

Tgt Ion: 50 Resp: 30997

Ion Ratio Lower Upper

50 100

52 35.3 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

25000

20000

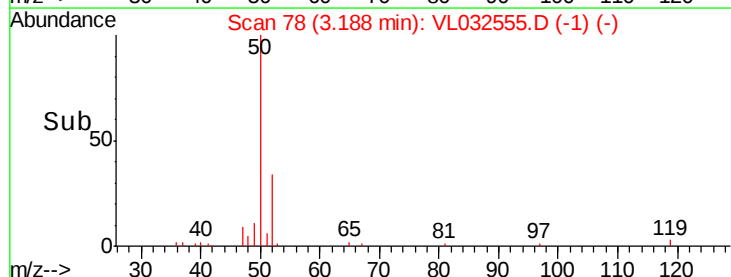
15000

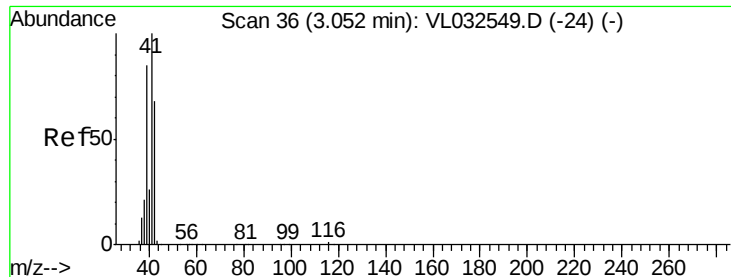
10000

5000

0

Time-->





#9

Propene

Concen: 2.668 ppbv

RT: 3.06 min Scan# 37

Delta R.T. -0.01 min

Lab File: VL032555.D

Acq: 27 Sep 2018 18:46

Instrument :

MSVOA_L

ClientSampleId :

247

Tgt Ion: 41 Resp: 128308

Ion Ratio Lower Upper

41 100

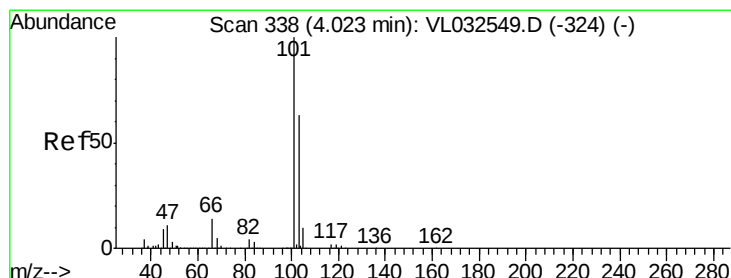
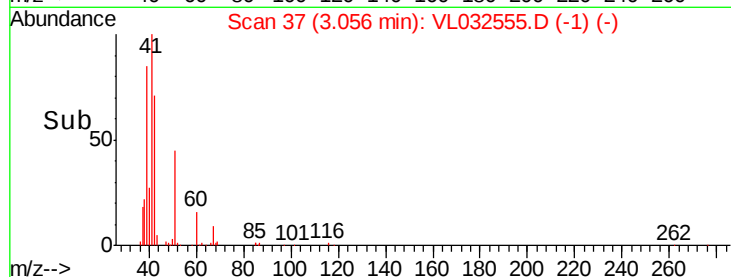
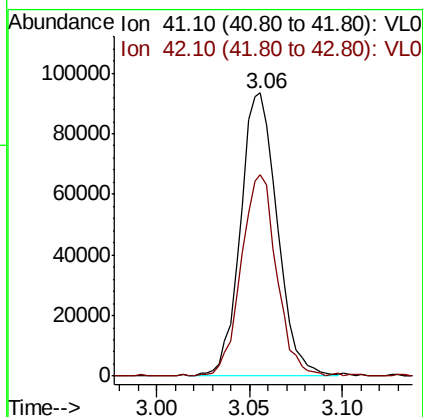
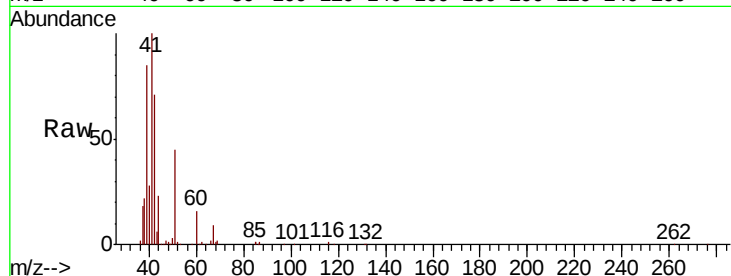
42 69.9 56.6 84.8

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#11

Trichlorofluoromethane

Concen: 0.215 ppbv m

RT: 4.02 min Scan# 338

Delta R.T. -0.02 min

Lab File: VL032555.D

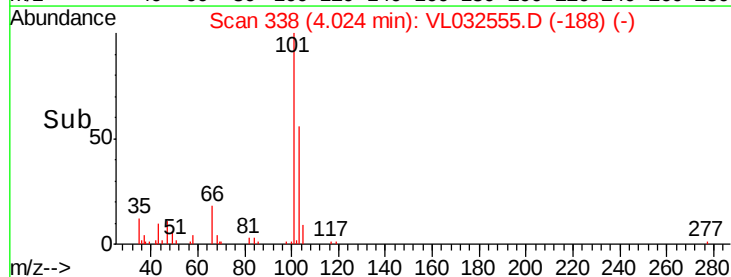
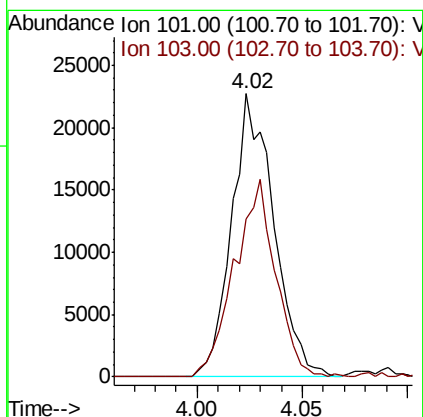
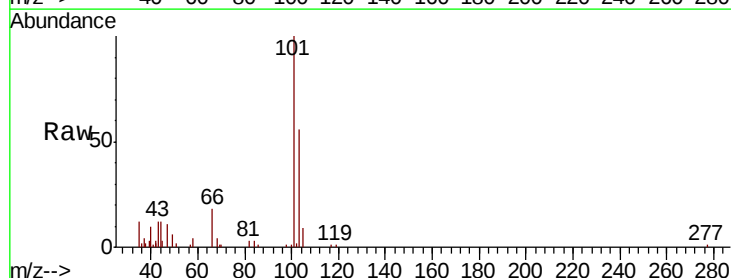
Acq: 27 Sep 2018 18:46

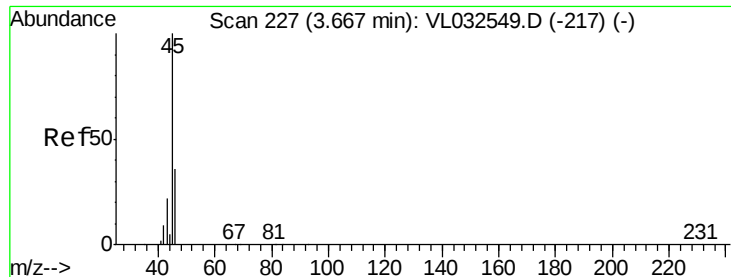
Tgt Ion: 101 Resp: 31557

Ion Ratio Lower Upper

101 100

103 55.9 52.8 79.2





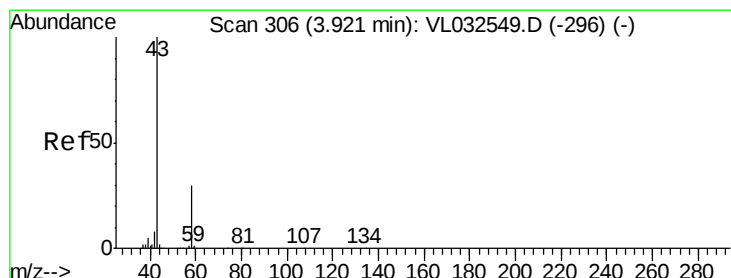
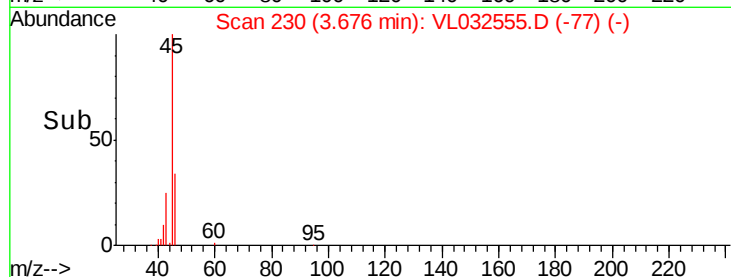
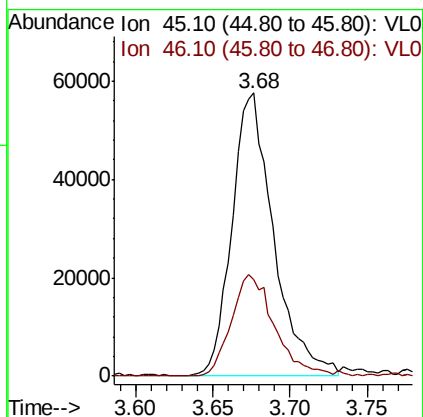
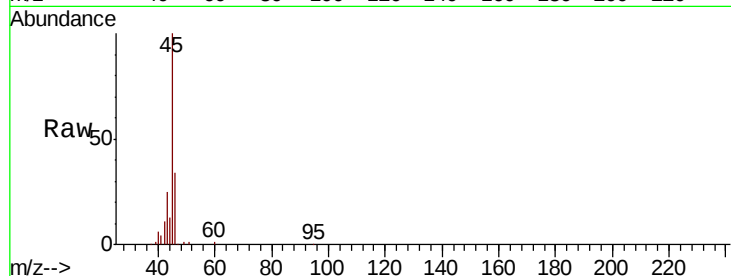
#13
Ethanol
Concen: 7.470 ppbv
RT: 3.68 min Scan# 230
Delta R.T. -0.01 min
Lab File: VL032555.D
Acq: 27 Sep 2018 18:46

Instrument :
MSVOA_L
ClientSampleId :
247

Tgt Ion: 45 Resp: 107962
Ion Ratio Lower Upper
45 100
46 37.4 14.2 56.8

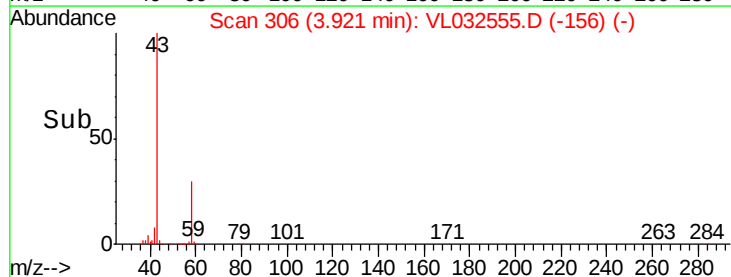
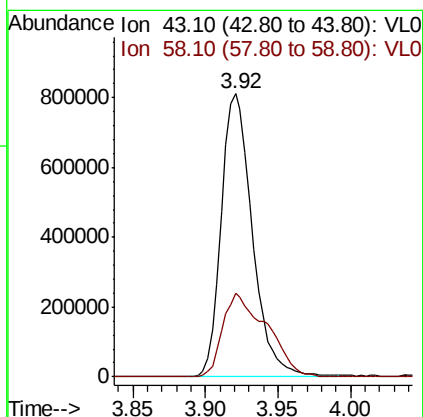
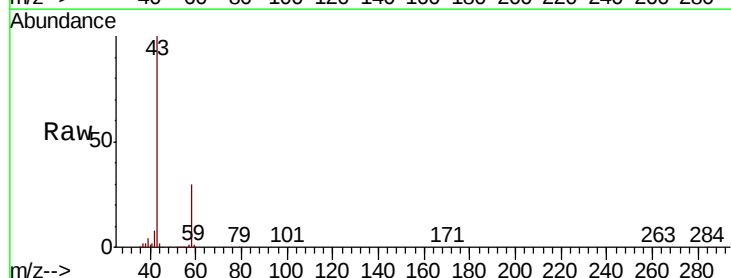
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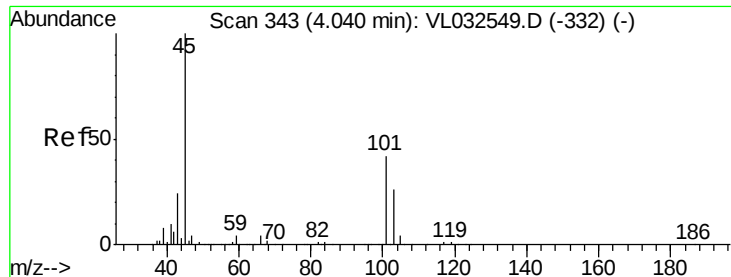
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#15
Acetone
Concen: 10.324 ppbv
RT: 3.92 min Scan# 306
Delta R.T. -0.02 min
Lab File: VL032555.D
Acq: 27 Sep 2018 18:46

Tgt Ion: 43 Resp: 1207616
Ion Ratio Lower Upper
43 100
58 42.1 22.6 33.8#





#19

Isopropyl Alcohol

Concen: 0.362 ppbv m

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VL032555.D

Acq: 27 Sep 2018 18:46

Instrument :

MSVOA_L

ClientSampleId :

247

Tgt Ion: 45 Resp: 29487

Ion Ratio Lower Upper

45 100

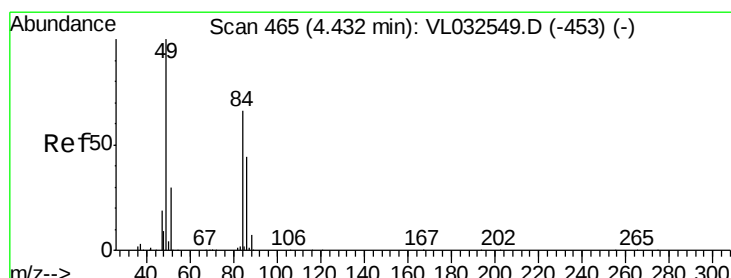
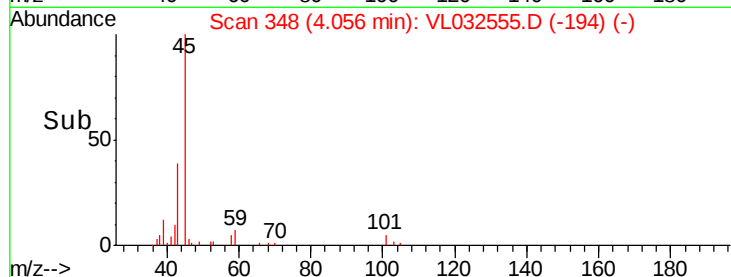
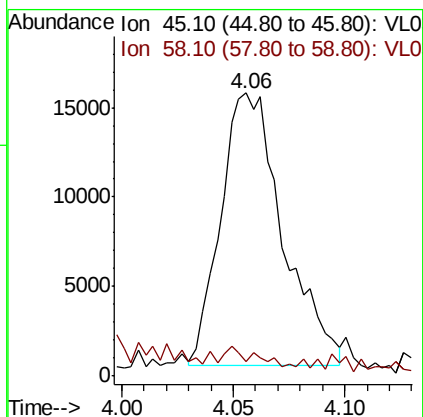
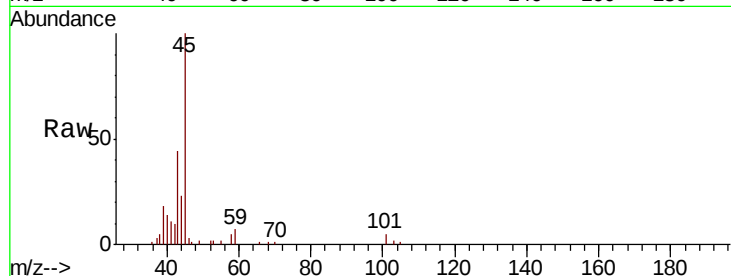
58 0.0 2.0 3.0#

Manual Integrations

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#20

Methylene Chloride

Concen: 3.351 ppbv

RT: 4.44 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL032555.D

Acq: 27 Sep 2018 18:46

Tgt Ion: 84 Resp: 189809

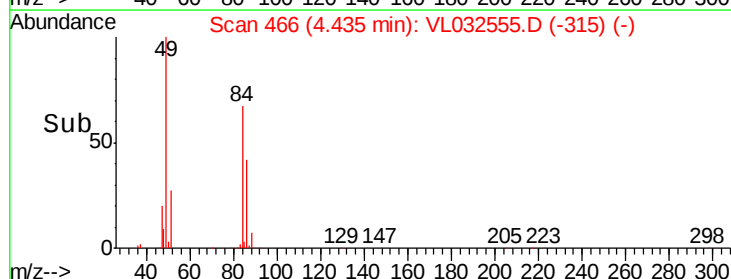
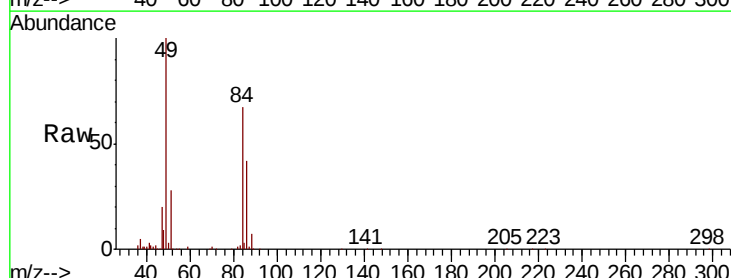
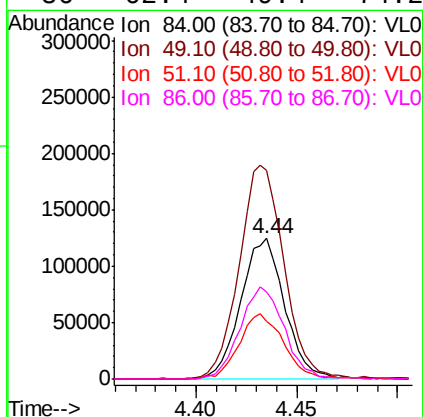
Ion Ratio Lower Upper

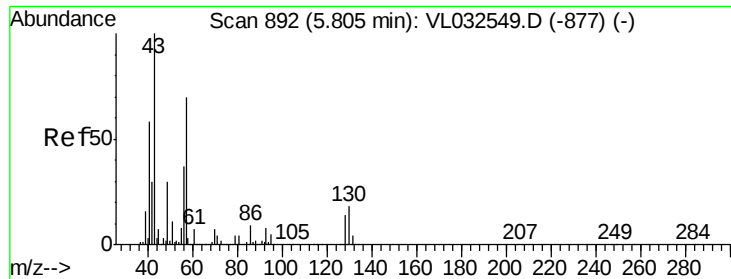
84 100

49 148.6 119.1 178.7

51 40.5 35.2 52.8

86 62.4 49.4 74.2





#26

Hexane

Concen: 1.395 ppbv

RT: 5.81 min Scan# 893

Delta R.T. -0.02 min

Lab File: VL032555.D

Acq: 27 Sep 2018 18:46

Instrument :

MSVOA_L

ClientSampleId :

247

Tgt Ion: 57 Resp: 178885

Ion Ratio Lower Upper

57 100

41 97.6 69.0 103.4

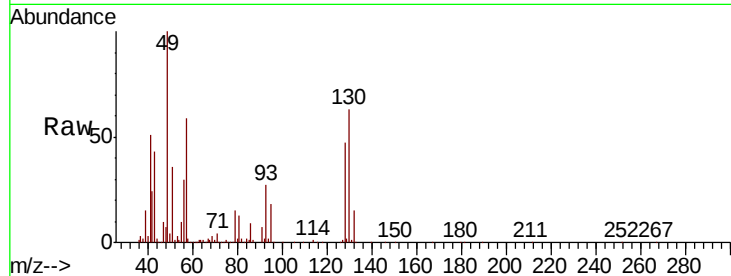
43 77.7 172.1 258.1#

56 58.3 42.2 63.2

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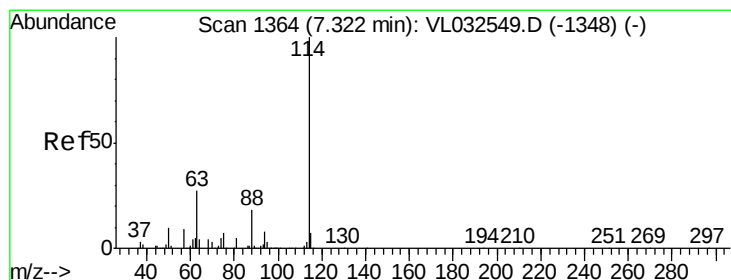
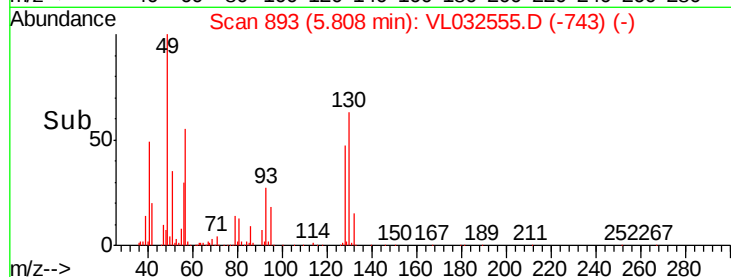
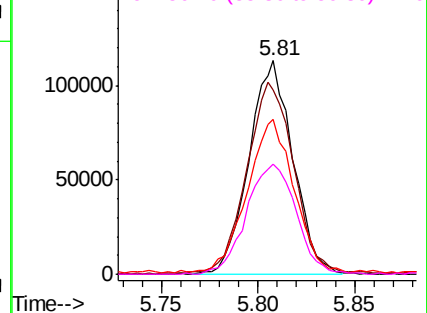


Abundance Ion 57.10 (56.80 to 57.80): VL0

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# 1364

Delta R.T. -0.02 min

Lab File: VL032555.D

Acq: 27 Sep 2018 18:46

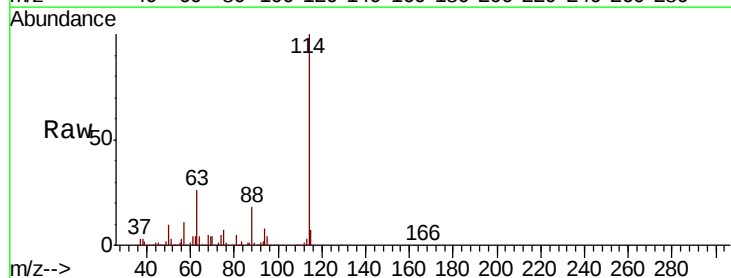
Tgt Ion: 114 Resp: 2844581

Ion Ratio Lower Upper

114 100

63 27.0 22.2 33.4

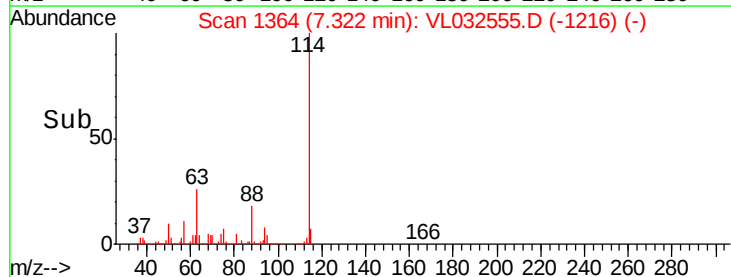
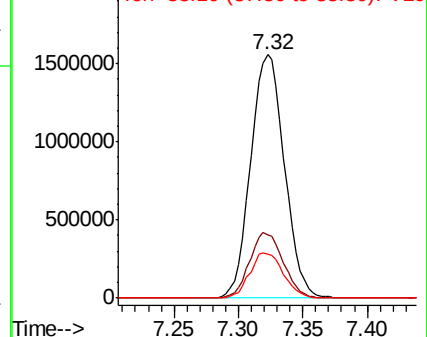
88 18.6 15.0 22.4

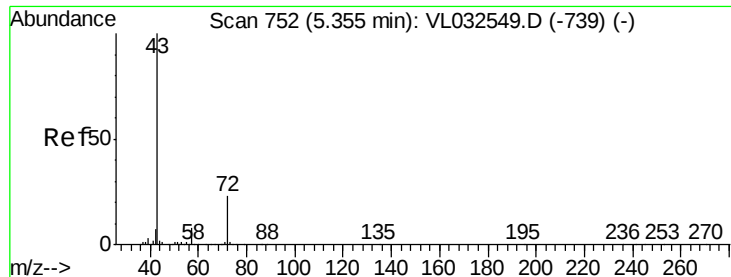


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 20.479 ppbv

RT: 5.35 min Scan# 750

Delta R.T. -0.02 min

Lab File: VL032555.D

Acq: 27 Sep 2018 18:46

Instrument :

MSVOA_L

ClientSampleId :

247

Tgt Ion: 43 Resp: 3469039

Ion Ratio Lower Upper

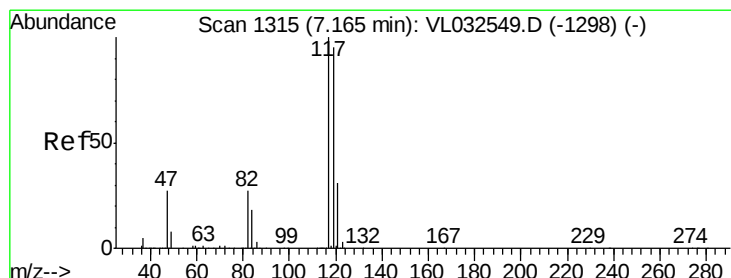
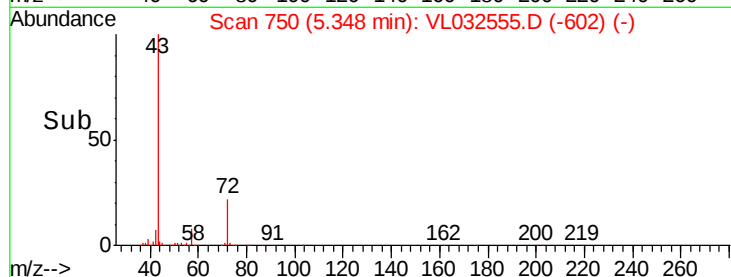
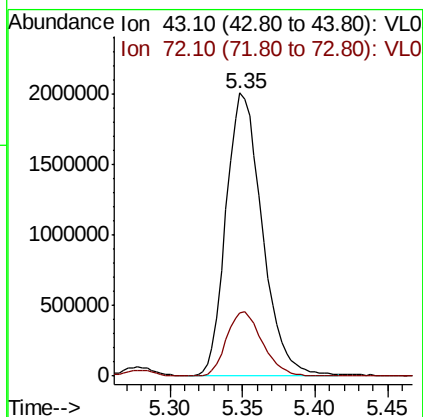
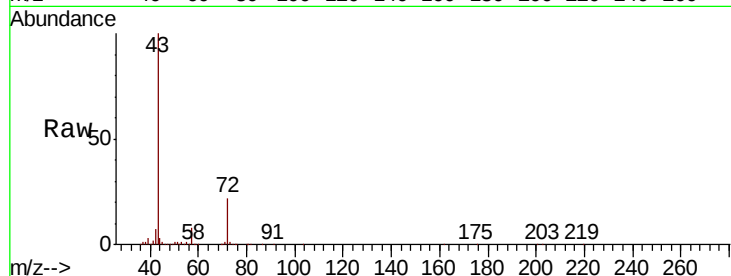
43 100

72 22.7 17.8 26.6

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#35

Carbon Tetrachloride

Concen: 0.072 ppbv m

RT: 7.17 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL032555.D

Acq: 27 Sep 2018 18:46

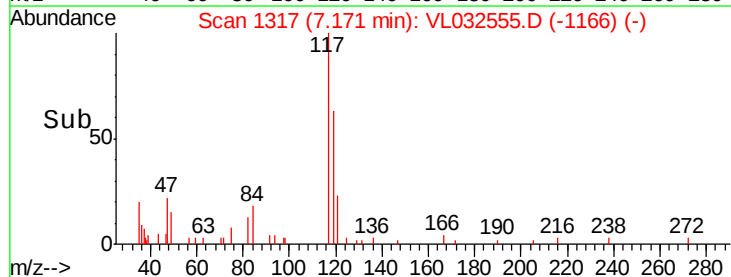
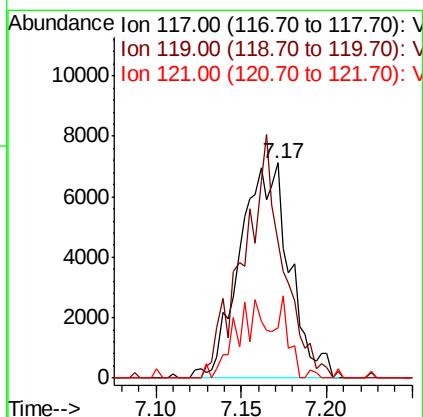
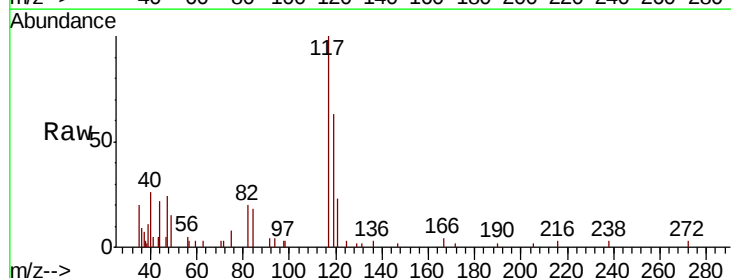
Tgt Ion: 117 Resp: 14285

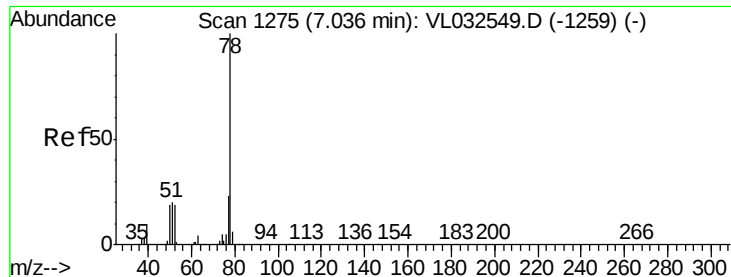
Ion Ratio Lower Upper

117 100

119 63.2 76.6 115.0#

121 23.2 24.6 36.8#





#36

Benzene

Concen: 0.113 ppbv m

RT: 7.03 min Scan# 1274

Delta R.T. -0.02 min

Lab File: VL032555.D

Acq: 27 Sep 2018 18:46

Instrument :

MSVOA_L

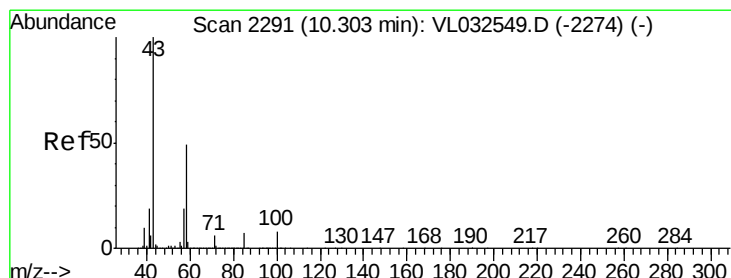
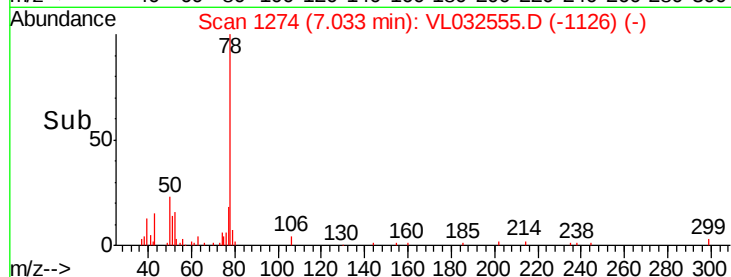
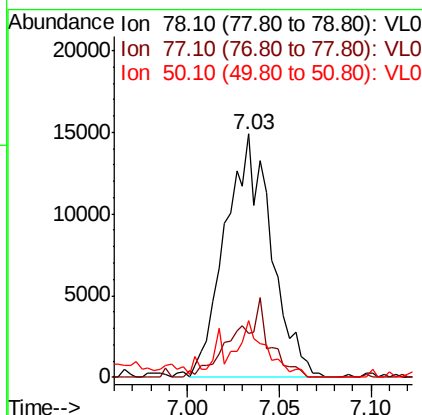
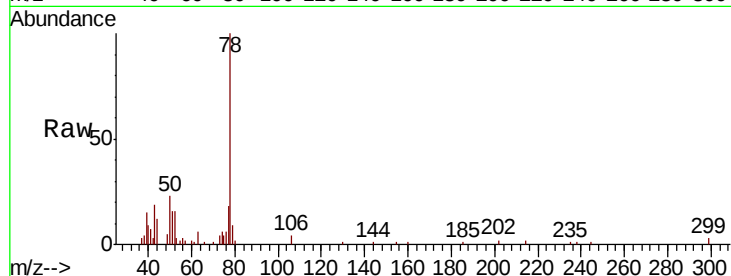
ClientSampleId :

247

Tgt Ion:	78	Resp:	25987
Ion Ratio	Lower	Upper	
78	100		
77	18.1	18.4	27.6#
50	23.4	14.4	21.6#

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#51

2-Hexanone

Concen: 1.232 ppbv

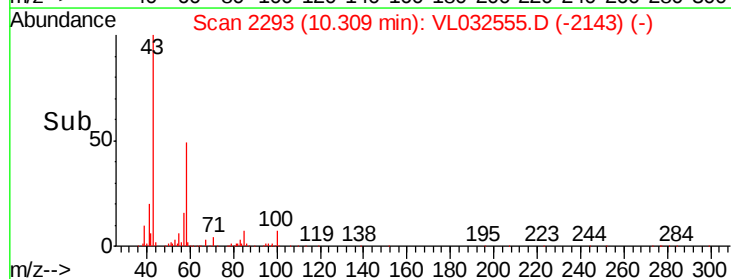
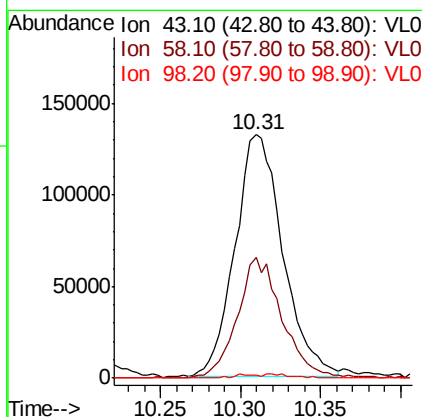
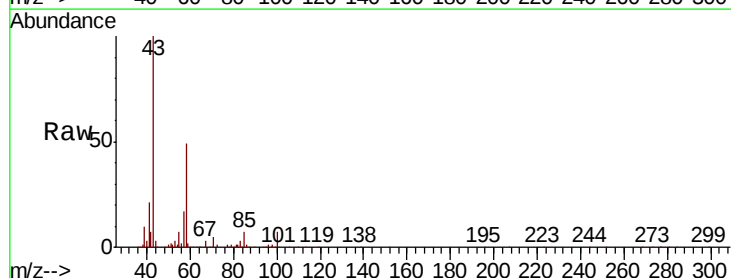
RT: 10.31 min Scan# 2293

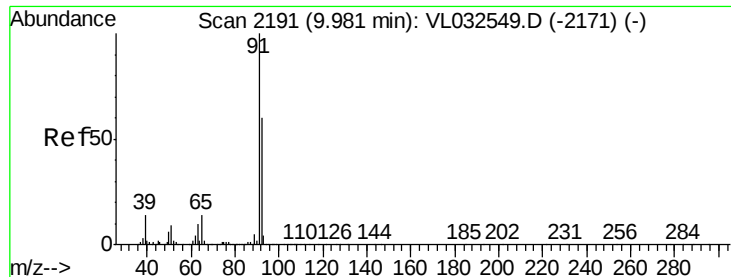
Delta R.T. -0.02 min

Lab File: VL032555.D

Acq: 27 Sep 2018 18:46

Tgt Ion:	43	Resp:	271369
Ion Ratio	Lower	Upper	
43	100		
58	46.8	39.2	58.8
98	1.8	0.4	0.6#





#53

Toluene

Concen: 0.275 ppbv m

RT: 9.98 min Scan# 2191

Delta R.T. -0.02 min

Lab File: VL032555.D

Acq: 27 Sep 2018 18:46

Instrument :

MSVOA_L

ClientSampleId :

247

Tgt Ion: 91 Resp: 76948

Ion Ratio Lower Upper

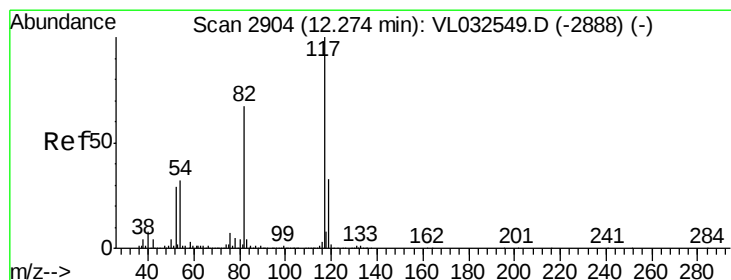
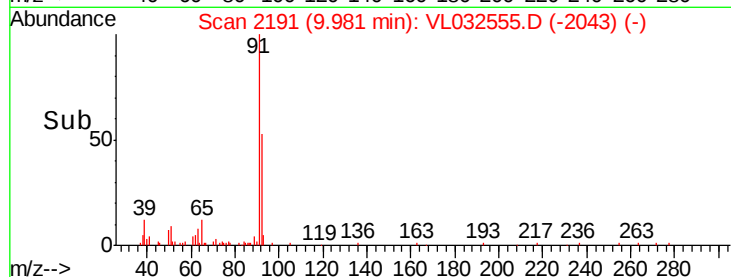
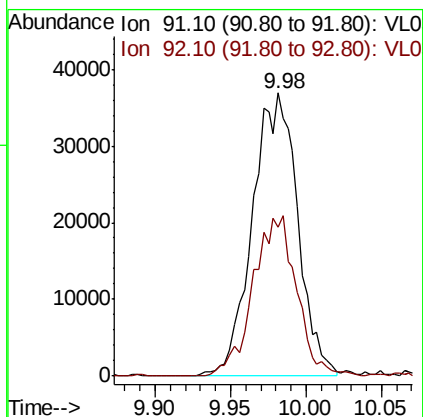
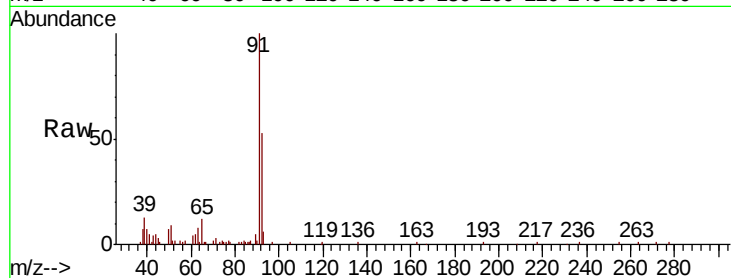
91 100

92 0.0 48.1 72.1#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.02 min

Lab File: VL032555.D

Acq: 27 Sep 2018 18:46

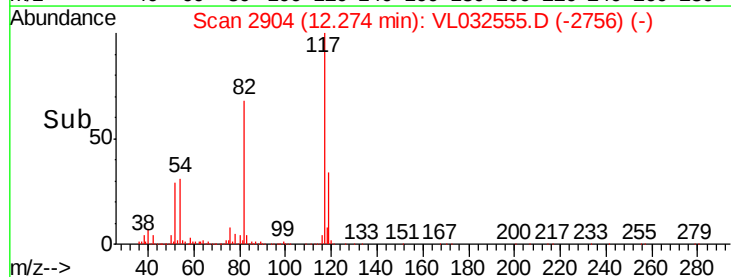
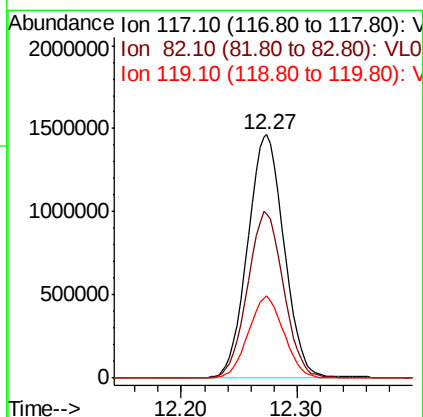
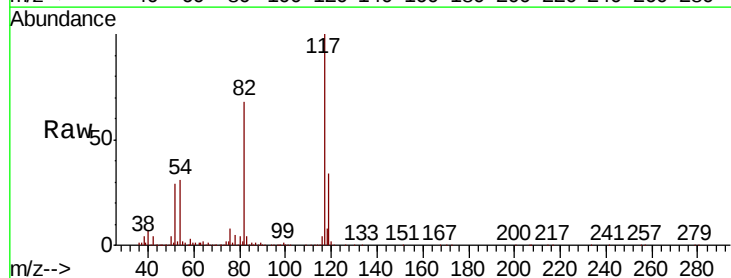
Tgt Ion: 117 Resp: 3201662

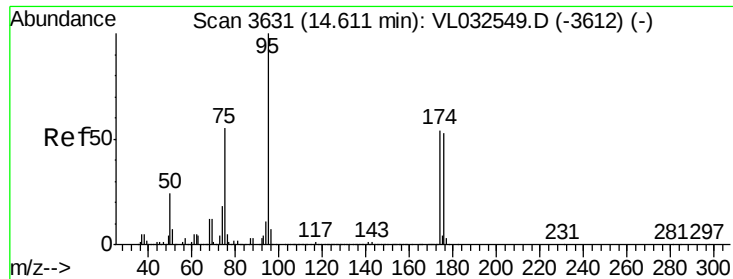
Ion Ratio Lower Upper

117 100

82 67.8 53.0 79.6

119 32.9 45.9 68.9#





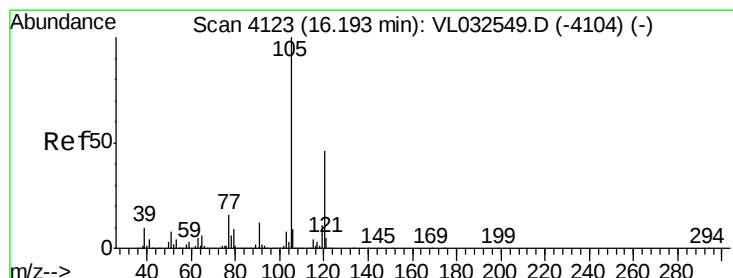
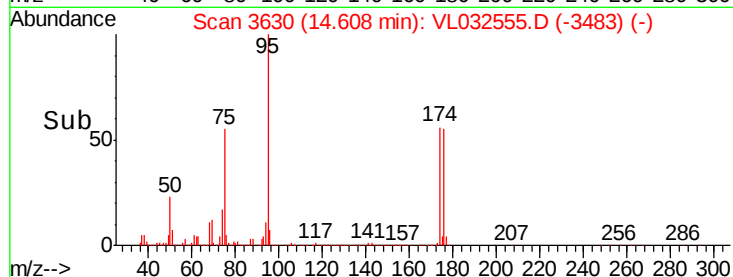
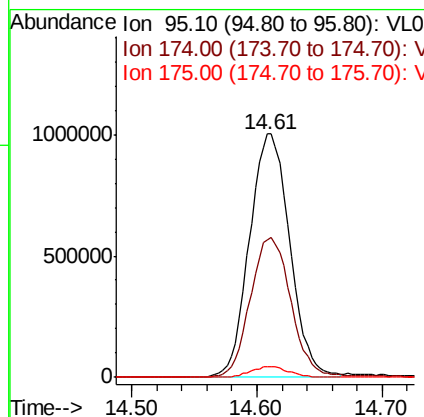
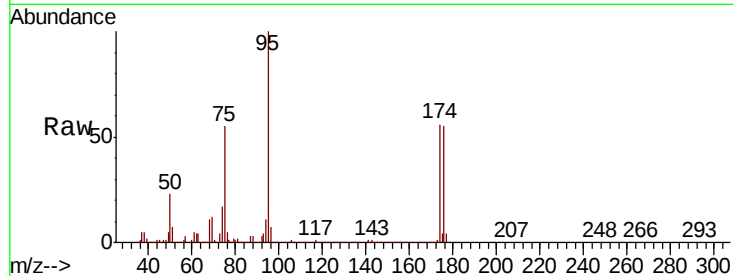
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.283 ppbv
 RT: 14.61 min Scan# 3630
 Delta R.T. -0.03 min
 Lab File: VL032555.D
 Acq: 27 Sep 2018 18:46

Instrument :
 MSVOA_L
 ClientSampled :
 247

Tgt Ion: 95 Resp: 2241305
 Ion Ratio Lower Upper
 95 100
 174 58.5 46.3 69.5
 175 4.3 3.4 5.0

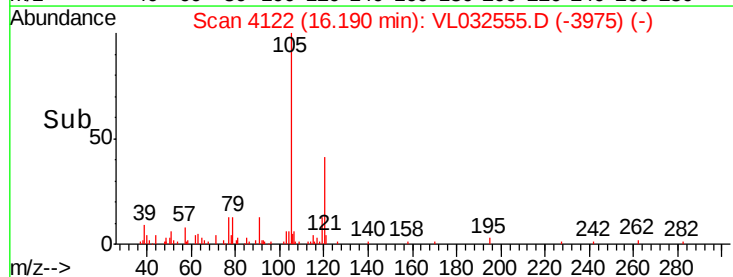
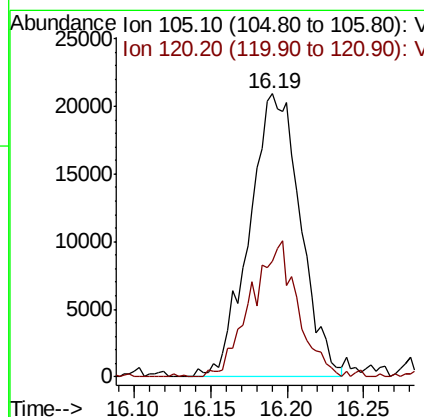
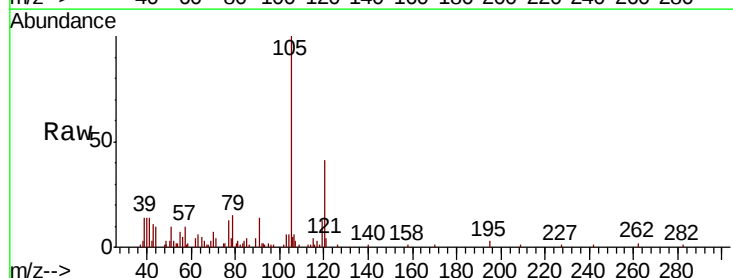
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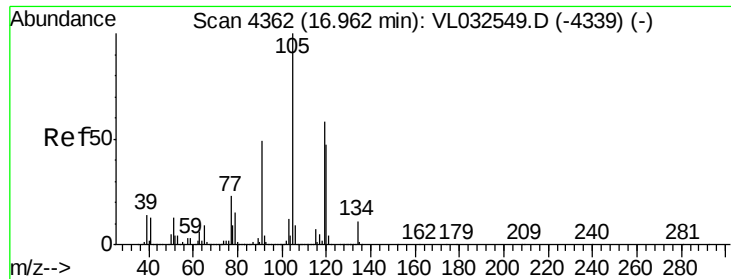
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#73
 1,3,5-Trimethylbenzene
 Concen: 0.137 ppbv m
 RT: 16.19 min Scan# 4122
 Delta R.T. -0.03 min
 Lab File: VL032555.D
 Acq: 27 Sep 2018 18:46

Tgt Ion: 105 Resp: 48510
 Ion Ratio Lower Upper
 105 100
 120 40.8 37.9 56.9





#74
 1,2,4-Trimethylbenzene
 Concen: 0.344 ppbv
 RT: 16.96 min Scan# 4361
 Delta R.T. -0.02 min
 Lab File: VL032555.D
 Acq: 27 Sep 2018 18:46

Instrument :
 MSVOA_L
 ClientSampleId :
 247

Tgt Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	42.4	37.8	56.8
91	12.2	41.4	62.0#
77	17.0	18.6	28.0#

Manual Integrations
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