

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032802.D
 Acq On : 21 Nov 2018 6:32
 Operator : SY/AP
 Sample : J6015-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Manual Integrations
 APPROVED

MMDadoda
 11/26/2018 9:19:05 AM

Quant Time: Nov 21 07:59:16 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1299637	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3341586	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3018085	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2275337	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	95084	0.509	ppbv	100
3) Chlorodifluoromethane	3.02	51	25933m	0.252	ppbv	
4) Chloromethane	3.18	50	26236	0.459	ppbv #	80
9) Propene	3.04	41	31780m	0.771	ppbv	
11) Trichlorofluoromethane	4.01	101	40306	0.229	ppbv	91
13) Ethanol	3.66	45	281011	20.807	ppbv	99
15) Acetone	3.91	43	313692	2.643	ppbv	91
19) Isopropyl Alcohol	4.05	45	56675	0.717	ppbv #	92
20) Methylene Chloride	4.42	84	49394	0.804	ppbv	95
26) Hexane	5.79	57	47614	0.387	ppbv #	47
34) 2-Butanone	5.35	43	21538	0.124	ppbv	98
35) Carbon Tetrachloride	7.14	117	20043m	0.075	ppbv	
36) Benzene	7.01	78	62024	0.233	ppbv	99
44) 2,2,4-Trimethylpentane	8.00	57	77870m	0.175	ppbv	
53) Toluene	9.96	91	162258	0.584	ppbv	99
59) m/p-Xylene	13.13	91	48138m	0.149	ppbv	

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

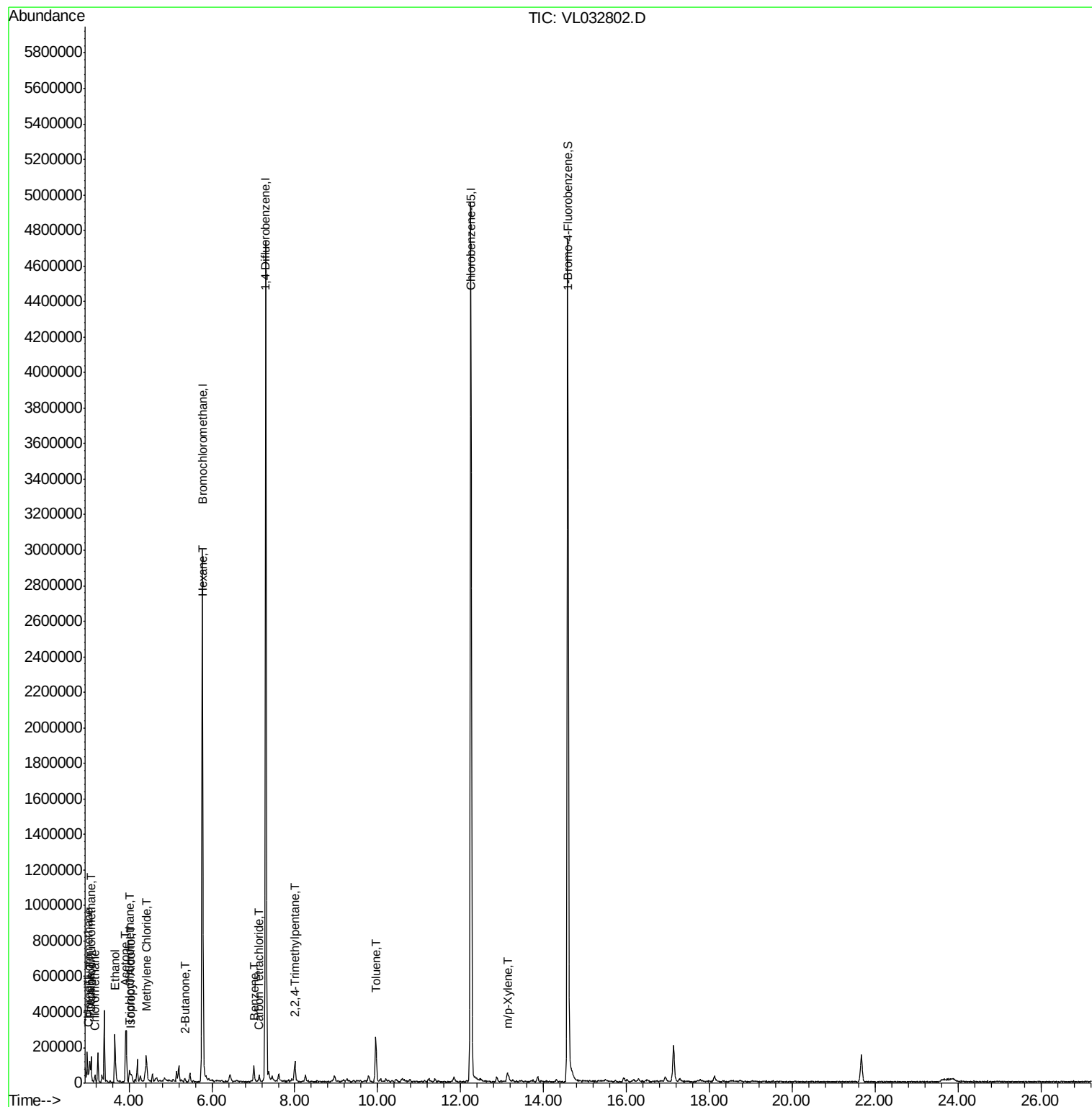
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112018\
Data File : VL032802.D
Acq On : 21 Nov 2018 6:32
Operator : SY/AP
Sample : J6015-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

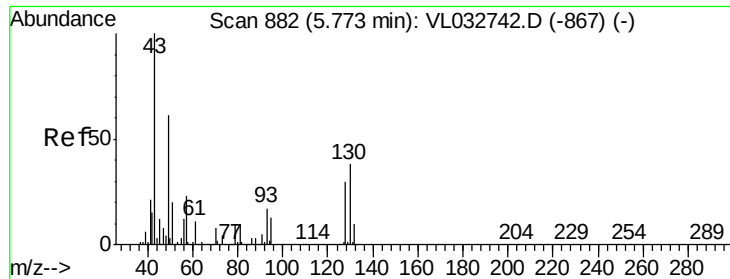
Instrument :
MSVOA_L
ClientSampleId :
OA-1

Manual Integrations
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Quant Time: Nov 21 07:59:16 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL032802.D

Acq: 21 Nov 2018 6:32

Instrument :

MSVOA_L

ClientSampled :

QA-1

Tot Ion: 49 Resp: 1299637

Ion Ratio Lower Upper

49 100

128 52.7 24.9 74.6

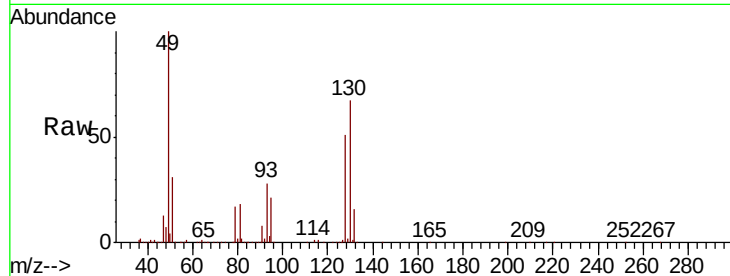
130 67.2 31.4 94.2

Manual Integrations

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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

1000000

800000

600000

400000

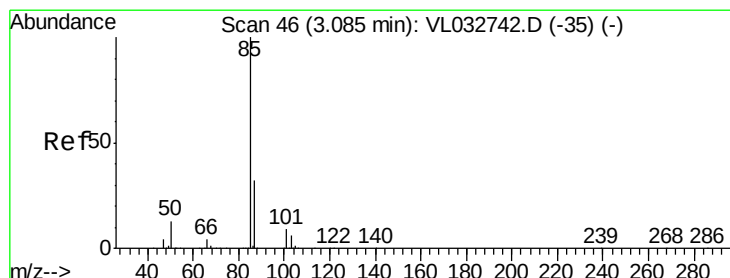
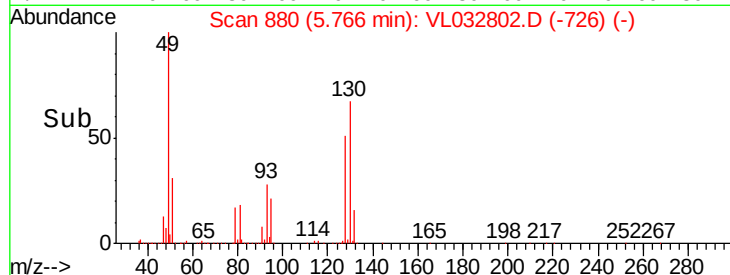
200000

0

5.77

5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 0.509 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032802.D

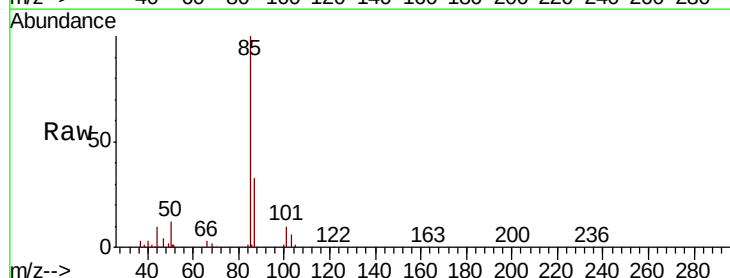
Acq: 21 Nov 2018 6:32

Tgt Ion: 85 Resp: 95084

Ion Ratio Lower Upper

85 100

87 32.7 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

80000

60000

40000

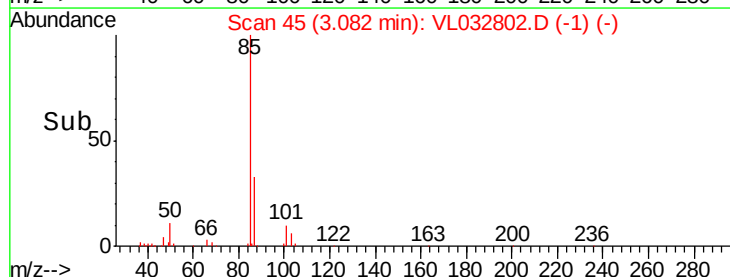
20000

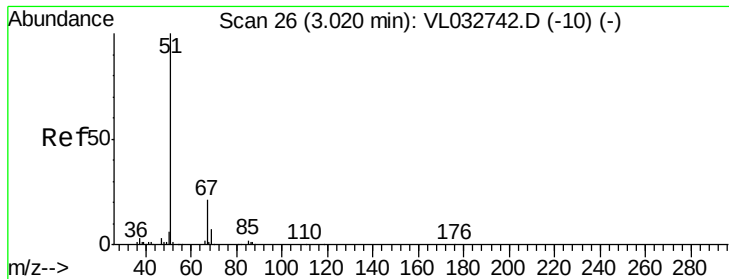
0

3.08

3.05 3.10

Time-->





#3

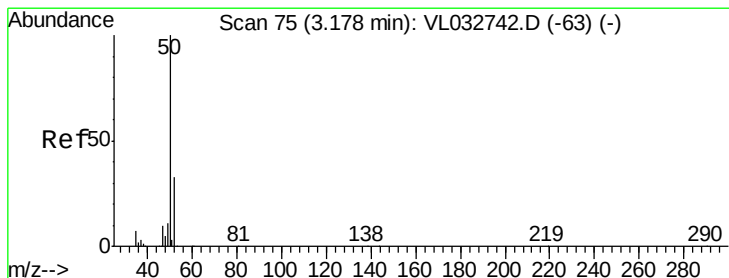
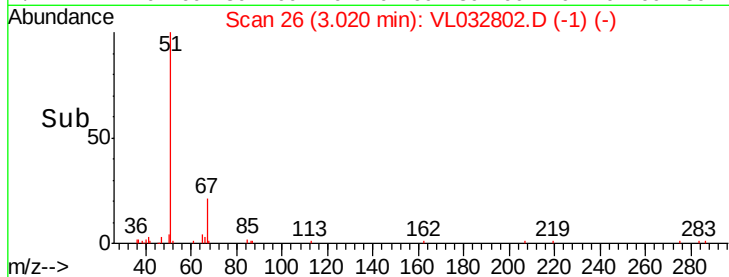
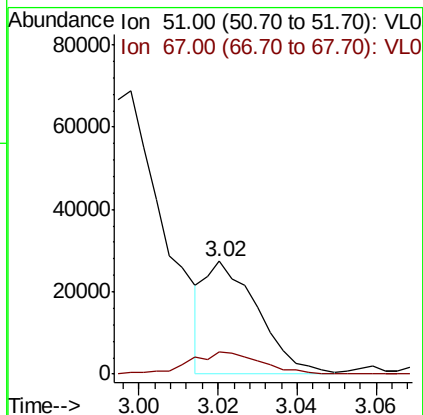
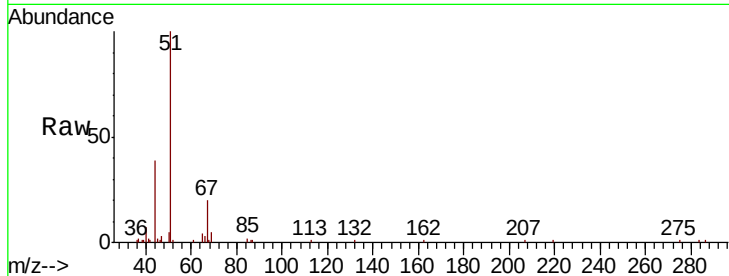
Chlorodifluoromethane
 Concen: 0.252 ppbv
 RT: 3.02 min Scan# 26
 Delta R.T. 0.00 min
 Lab File: VL032802.D
 Acq: 21 Nov 2018 6:32

Instrument :
 MSVOA_L
 ClientSampled :
 OA-1

Tot Ion	51	Resp	25933
Ion Ratio	100	Lower	Upper
51	100		
67	26.0	16.1	24.1#

Manual Integrations
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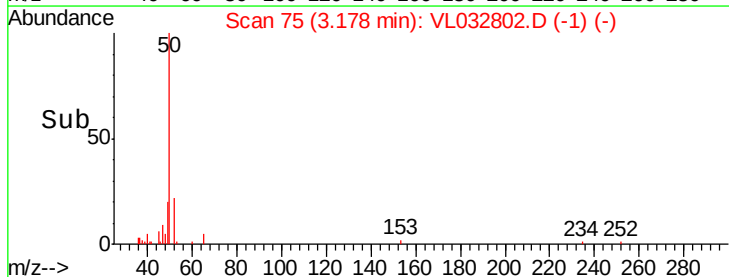
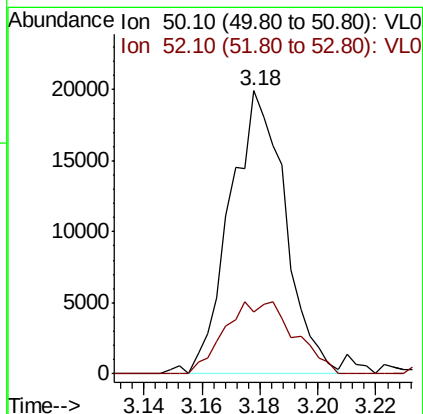
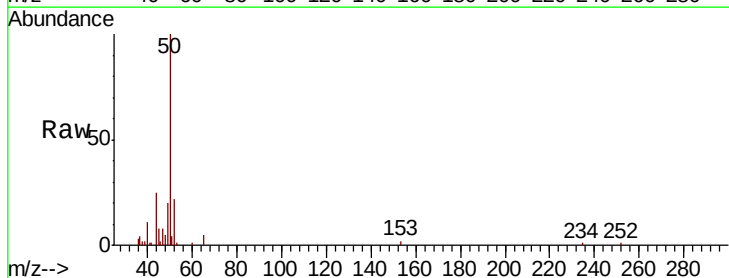
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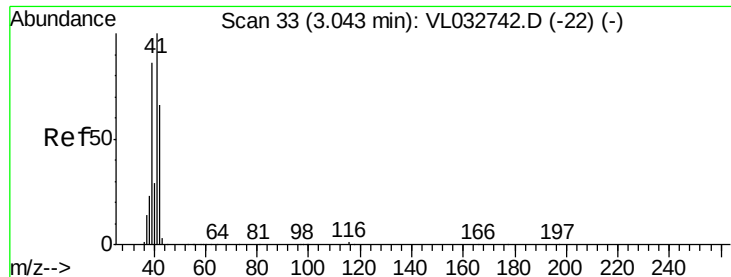


#4

Chloromethane
 Concen: 0.459 ppbv
 RT: 3.18 min Scan# 75
 Delta R.T. 0.00 min
 Lab File: VL032802.D
 Acq: 21 Nov 2018 6:32

Tgt Ion	50	Resp	26236
Ion Ratio	100	Lower	Upper
50	100		
52	21.8	26.6	40.0#





#9

Propene

Concen: 0.771 ppbv m

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL032802.D

Acq: 21 Nov 2018 6:32

Instrument :

MSVOA_L

ClientSampleId :

QA-1

Tot Ion: 41 Resp: 31780

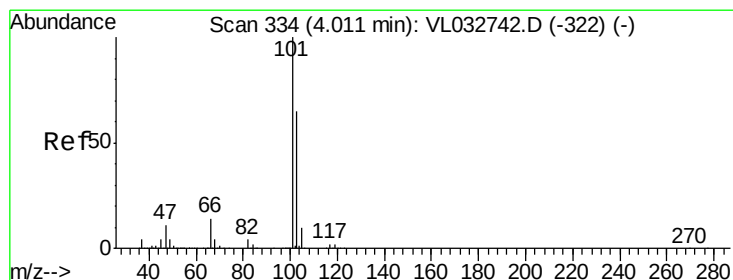
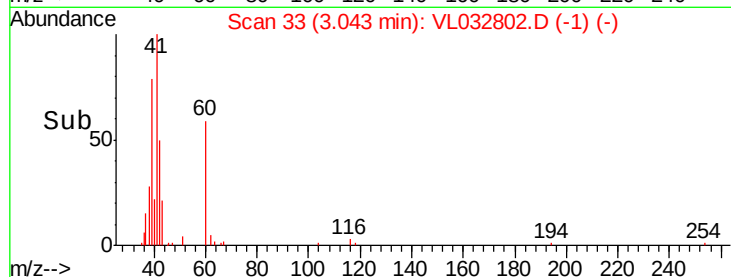
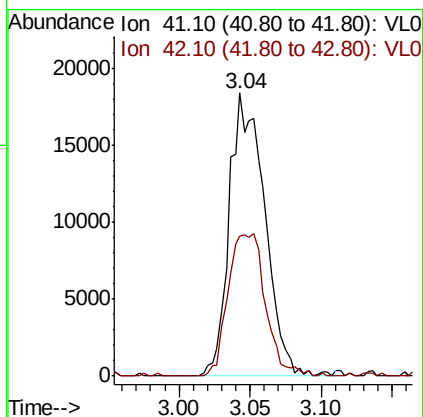
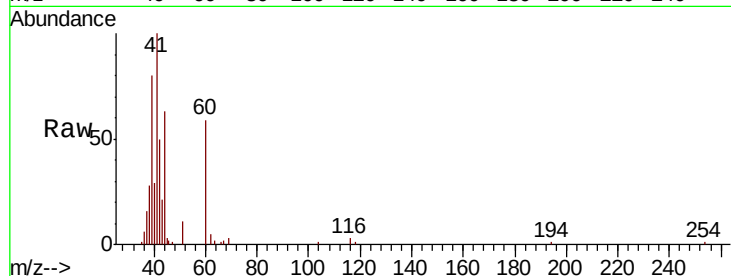
Ion Ratio Lower Upper

41 100

42 85.1 55.0 82.6#

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#11

Trichlorofluoromethane

Concen: 0.229 ppbv

RT: 4.01 min Scan# 335

Delta R.T. 0.00 min

Lab File: VL032802.D

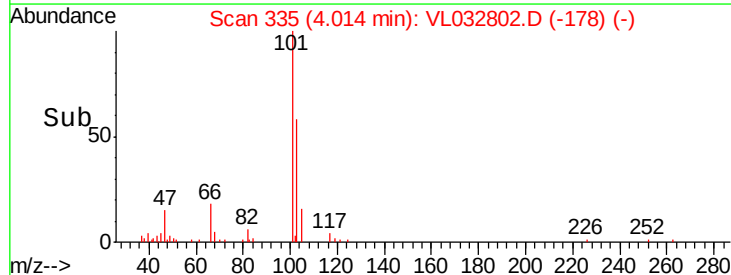
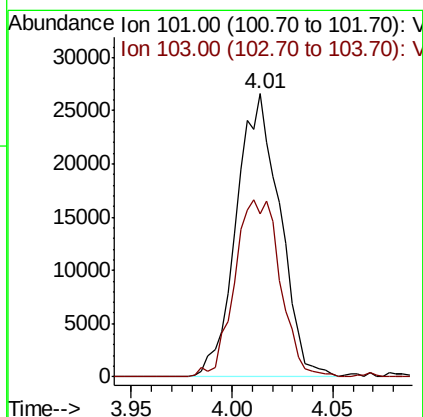
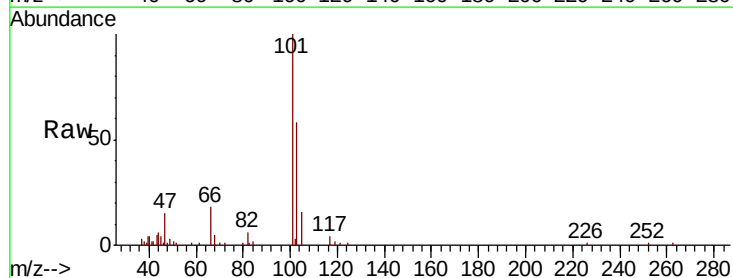
Acq: 21 Nov 2018 6:32

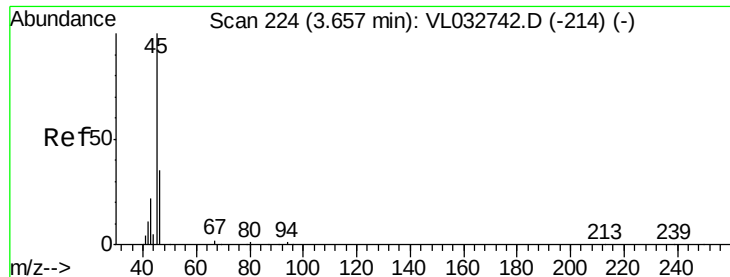
Tgt Ion: 101 Resp: 40306

Ion Ratio Lower Upper

101 100

103 57.8 51.6 77.4





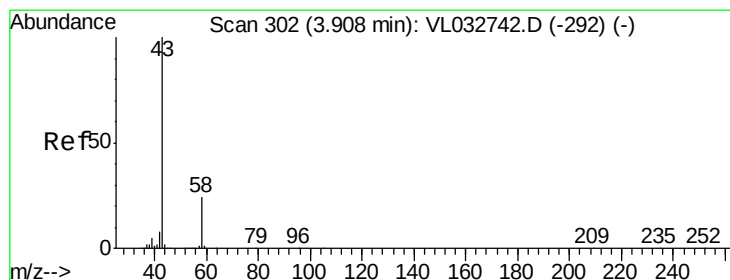
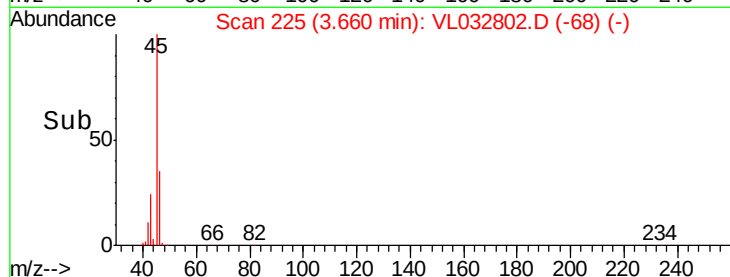
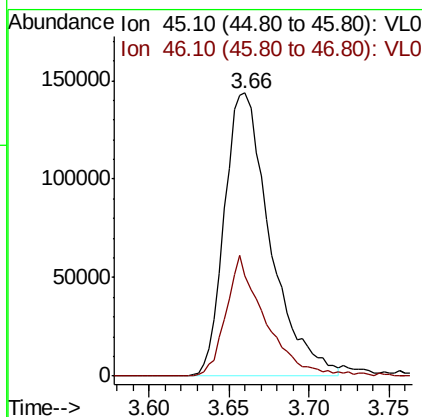
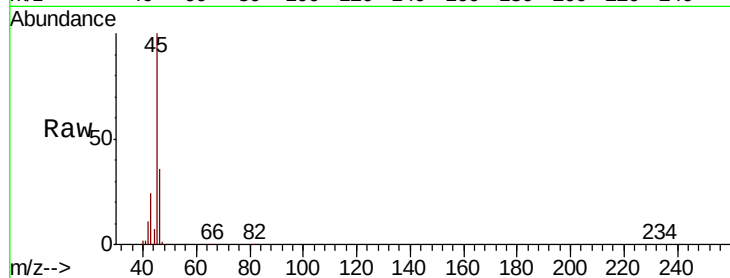
#13
Ethanol
Concen: 20.807 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.00 min
Lab File: VL032802.D
Acq: 21 Nov 2018 6:32

Instrument :
MSVOA_L
ClientSampled :
OA-1

Tot Ion	45	46	Ratio	Lower	Upper
281011	100	36.9		14.5	57.9

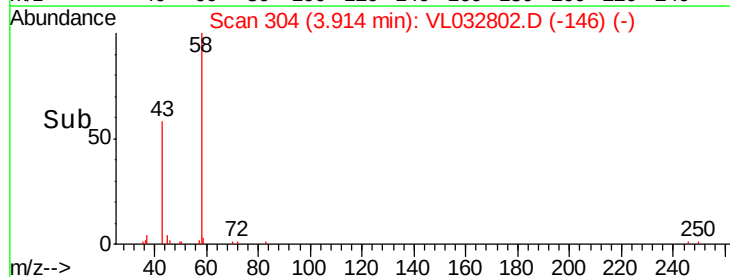
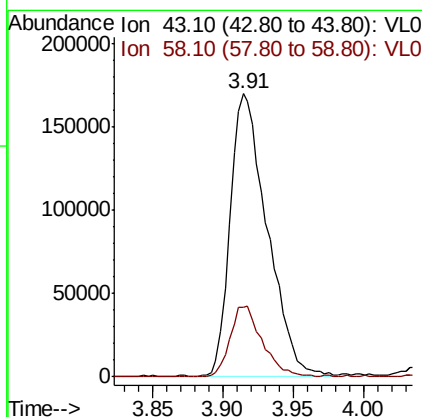
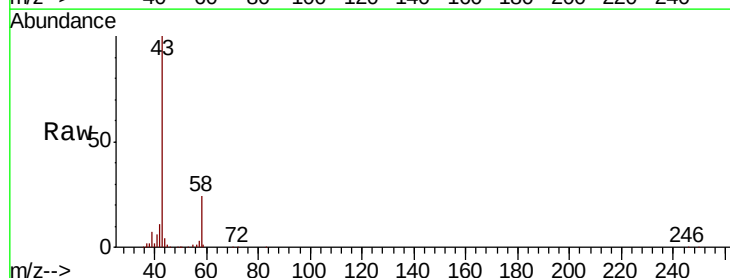
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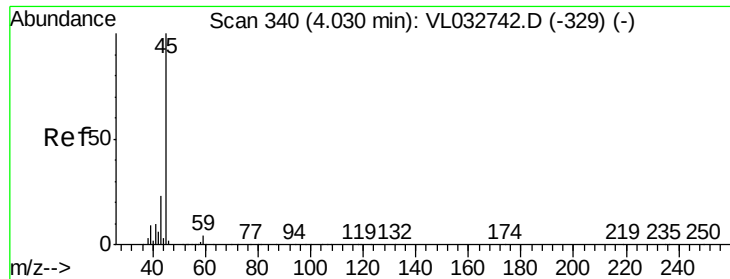
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#15
Acetone
Concen: 2.643 ppbv
RT: 3.91 min Scan# 304
Delta R.T. 0.01 min
Lab File: VL032802.D
Acq: 21 Nov 2018 6:32

Tgt Ion	43	58	Ratio	Lower	Upper
313692	100	21.9		21.1	31.7





#19

Isopropyl Alcohol

Concen: 0.717 ppbv

RT: 4.05 min Scan# 345

Delta R.T. 0.02 min

Lab File: VL032802.D

Acq: 21 Nov 2018 6:32

Instrument :

MSVOA_L

ClientSampleId :

QA-1

Tot Ion: 45 Resp: 56675

Ion Ratio Lower Upper

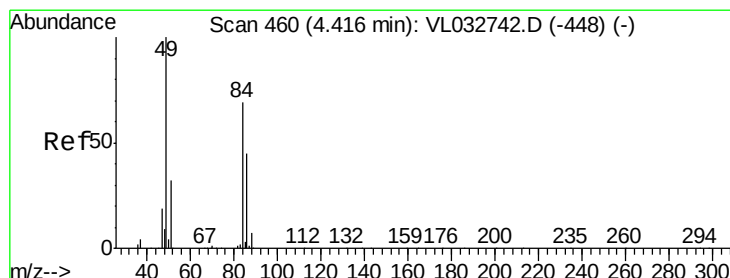
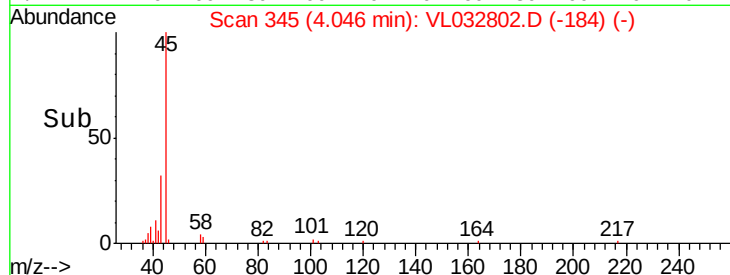
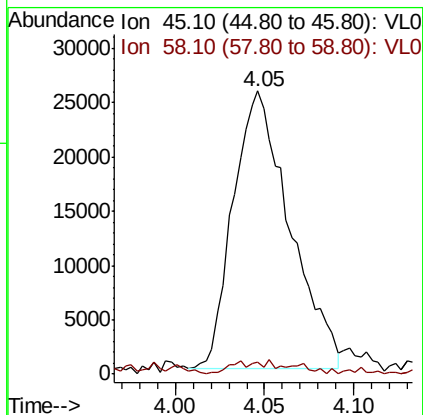
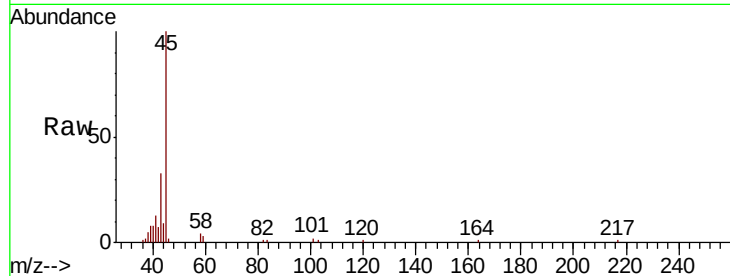
45 100

58 4.8 1.4 2.0#

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#20

Methylene Chloride

Concen: 0.804 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL032802.D

Acq: 21 Nov 2018 6:32

Tgt Ion: 84 Resp: 49394

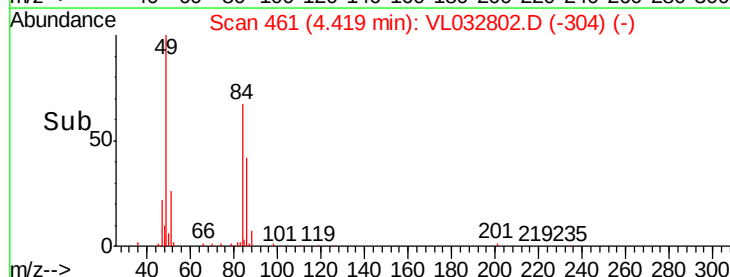
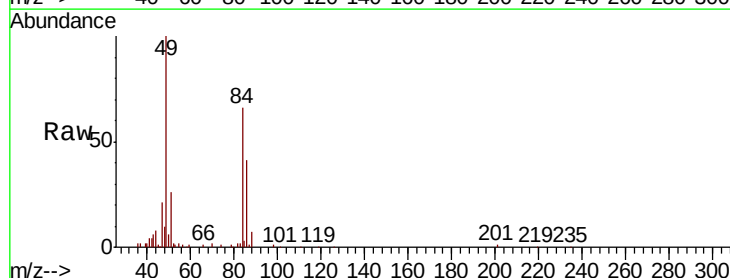
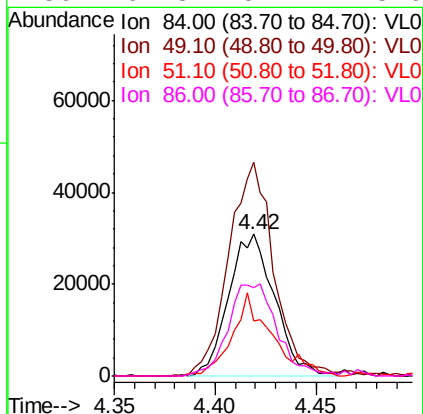
Ion Ratio Lower Upper

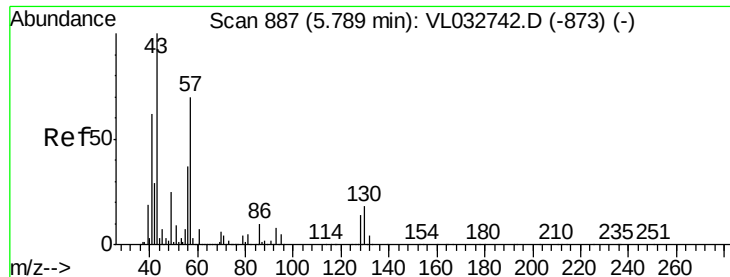
84 100

49 149.7 115.8 173.6

51 38.7 36.9 55.3

86 61.8 52.4 78.6





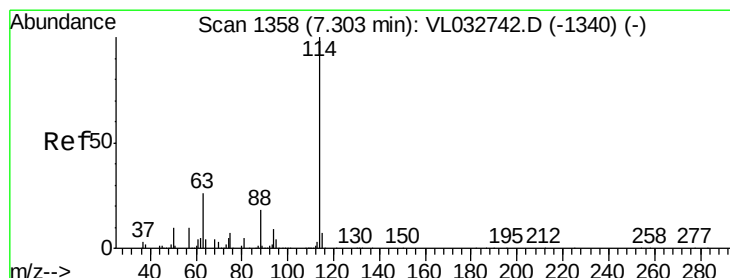
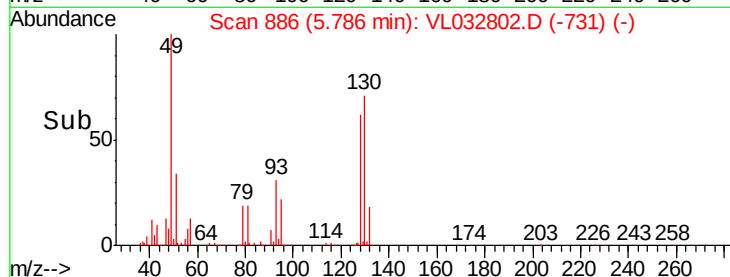
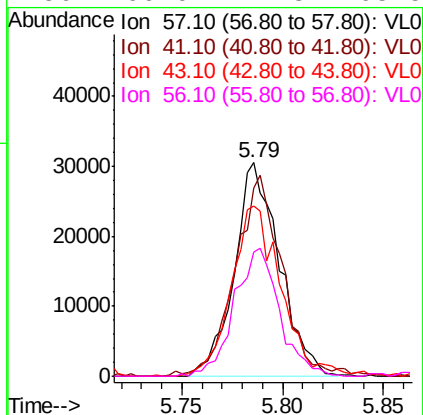
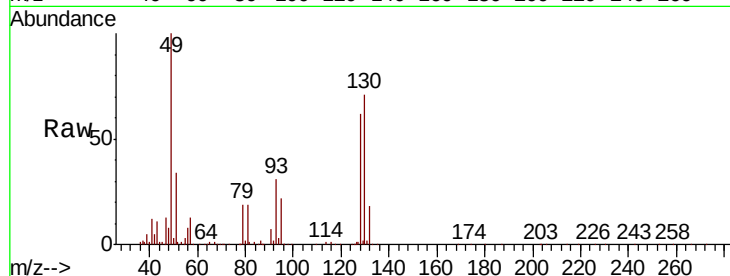
#26
Hexane
Concen: 0.387 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032802.D
Acq: 21 Nov 2018 6:32

Instrument :
MSVOA_L
ClientSampleId :
OA-1

Tot Ion	Ion	Ratio	Lower	Upper
57	100			
41	98.7	70.3	105.5	
43	89.2	174.0	261.0	
56	60.0	42.3	63.5	

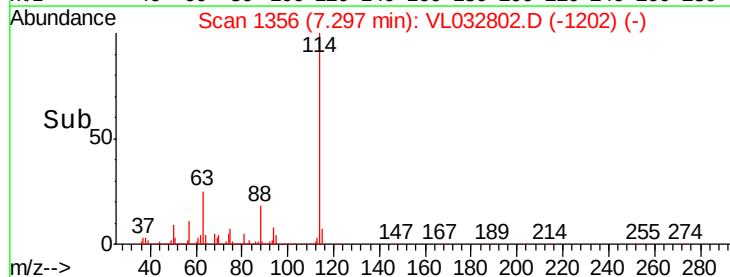
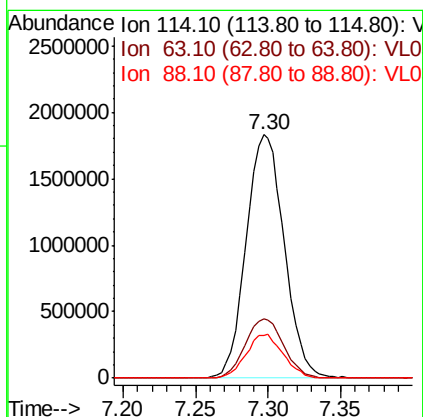
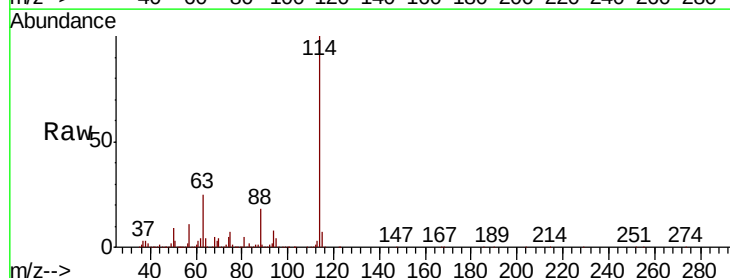
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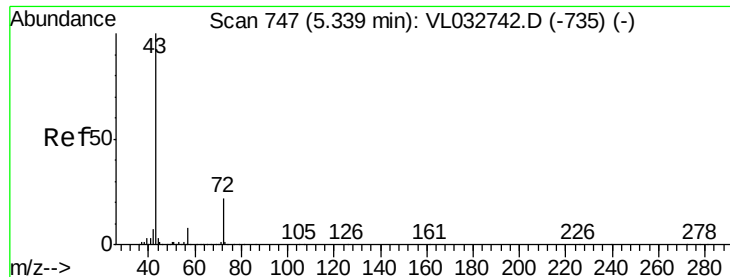
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.01 min
Lab File: VL032802.D
Acq: 21 Nov 2018 6:32

Tgt Ion	Ion	Ratio	Lower	Upper
114	100			
63	24.7	20.9	31.3	
88	17.6	14.4	21.6	





#34

2-Butanone

Concen: 0.124 ppbv

RT: 5.35 min Scan# 750

Delta R.T. 0.01 min

Lab File: VL032802.D

Acq: 21 Nov 2018 6:32

Instrument :

MSVOA_L

ClientSampled :

QA-1

Tot Ion: 43 Resp: 21538

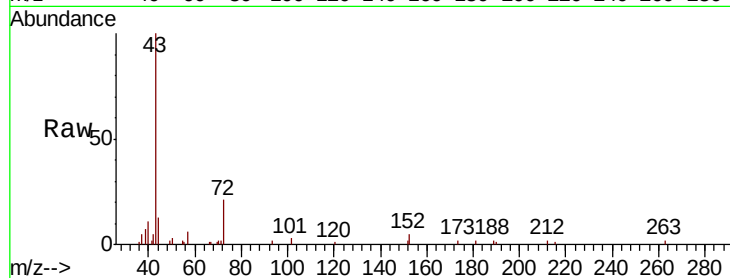
Ion Ratio Lower Upper

43 100

72 22.0 18.4 27.6

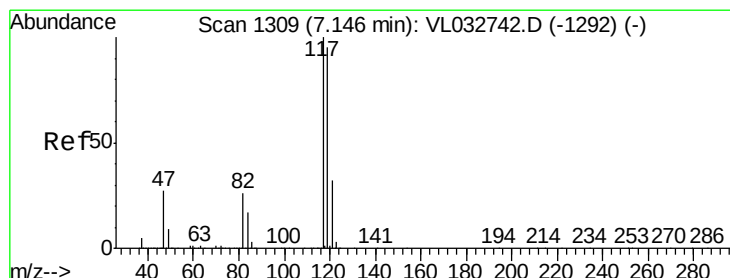
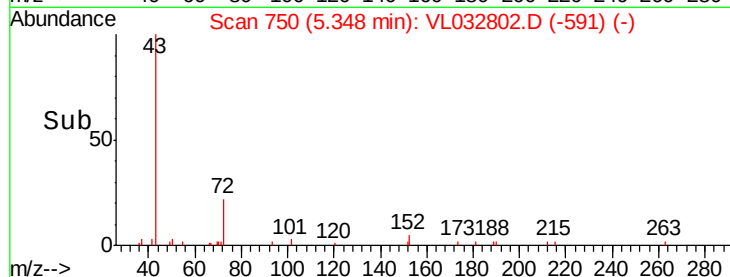
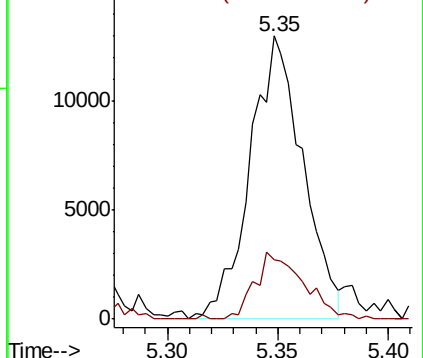
Manual Integrations
APPROVED

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Abundance Ion 43.10 (42.80 to 43.80): VL032742.D (-735) (-)

Ion 72.10 (71.80 to 72.80): VL032742.D (-735) (-)



#35

Carbon Tetrachloride

Concen: 0.075 ppbv m

RT: 7.14 min Scan# 1306

Delta R.T. -0.01 min

Lab File: VL032802.D

Acq: 21 Nov 2018 6:32

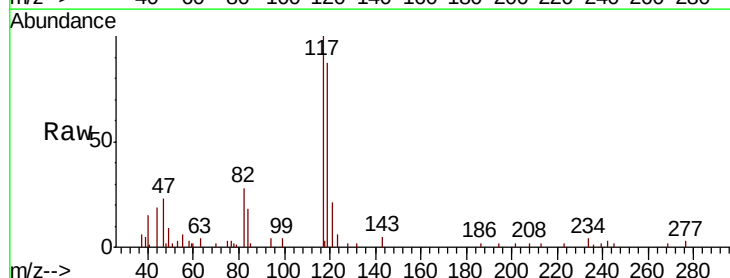
Tgt Ion: 117 Resp: 20043

Ion Ratio Lower Upper

117 100

119 87.0 76.1 114.1

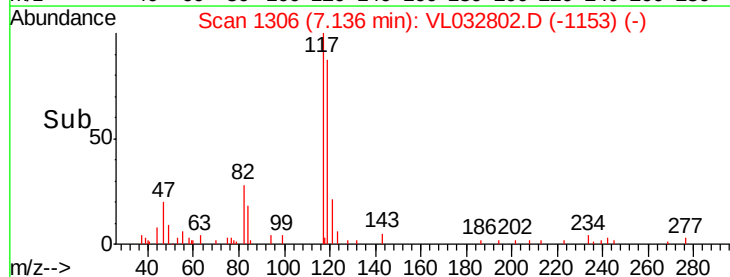
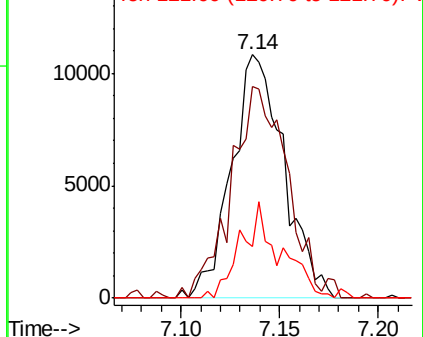
121 21.3 25.4 38.0#

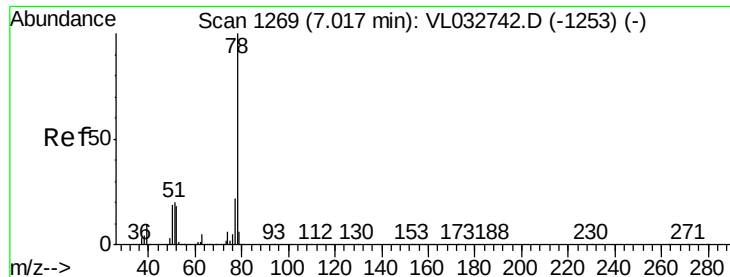


Abundance Ion 117.00 (116.70 to 117.70): VL032742.D (-1292) (-)

Ion 119.00 (118.70 to 119.70): VL032742.D (-1292) (-)

Ion 121.00 (120.70 to 121.70): VL032742.D (-1292) (-)





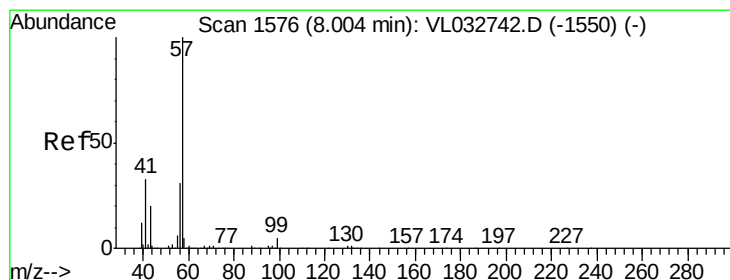
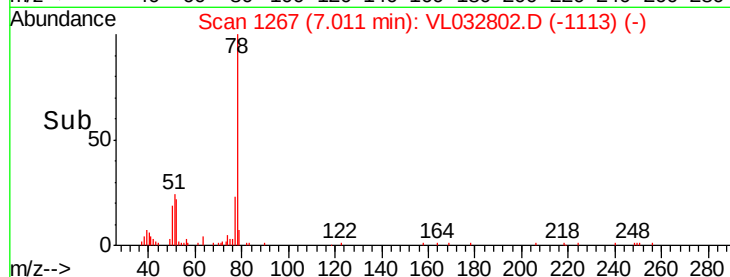
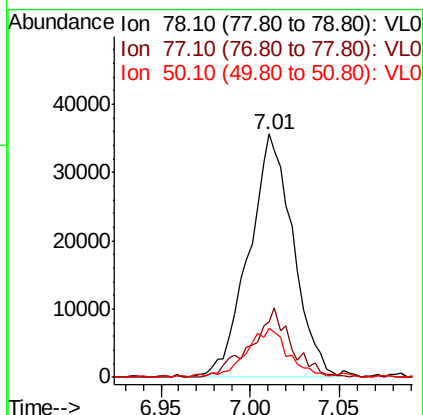
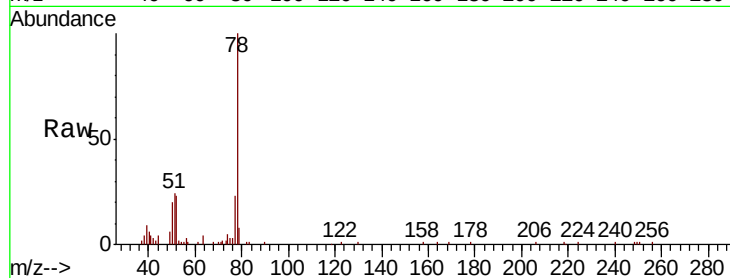
#36
Benzene
Concen: 0.233 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.01 min
Lab File: VL032802.D
Acq: 21 Nov 2018 6:32

Instrument :
MSVOA_L
ClientSampleId :
QA-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.8	17.8	26.8
50	20.0	15.4	23.0

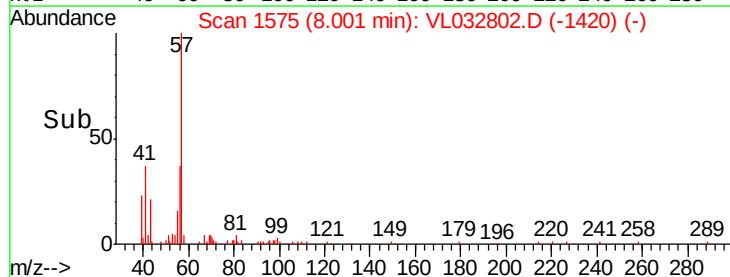
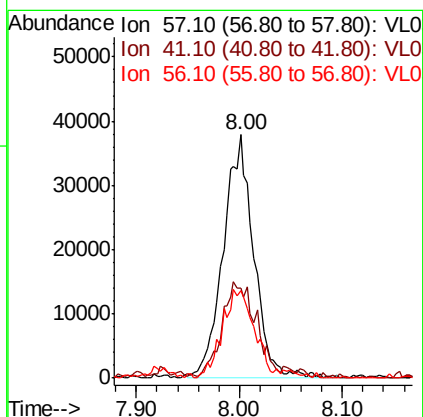
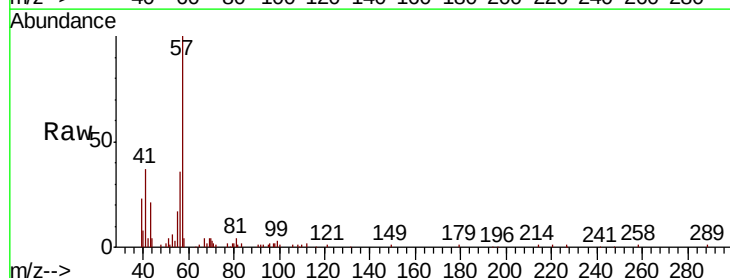
Manual Integrations
APPROVED

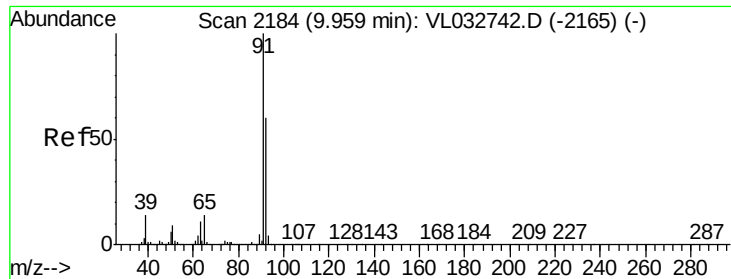
MMDadoda
11/26/2018 9:19:05 AM



#44
2,2,4-Trimethylpentane
Concen: 0.175 ppbv m
RT: 8.00 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VL032802.D
Acq: 21 Nov 2018 6:32

Tgt Ion	Ratio	Lower	Upper
57	100		
41	47.5	26.6	39.8#
56	40.9	24.8	37.2#





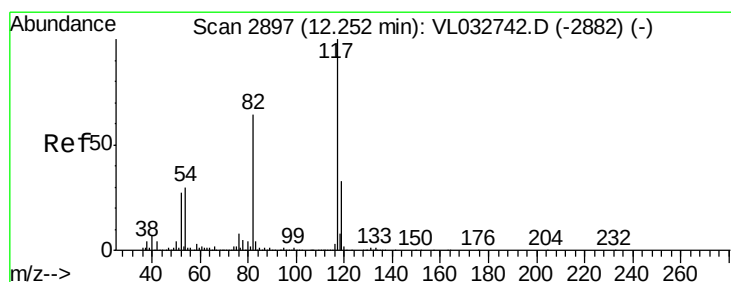
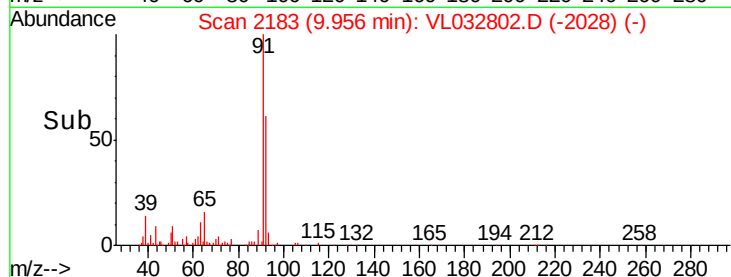
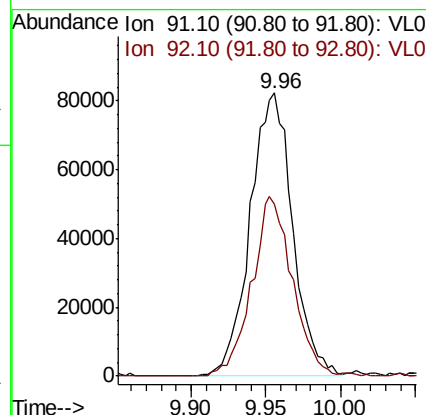
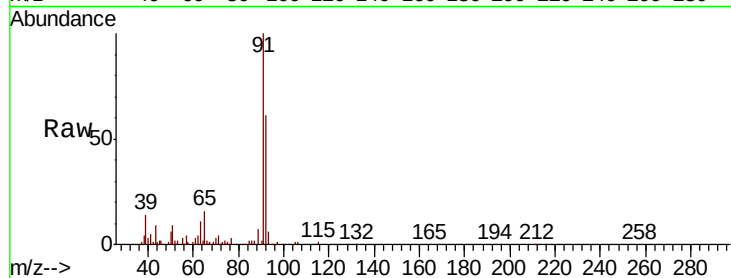
#53
Toluene
Concen: 0.584 ppbv
RT: 9.96 min Scan# 2183
Delta R.T. -0.00 min
Lab File: VL032802.D
Acq: 21 Nov 2018 6:32

Instrument :
MSVOA_L
ClientSampleId :
OA-1

Tot Ion: 91 Resp: 162258
Ion Ratio Lower Upper
91 100
92 60.8 47.9 71.9

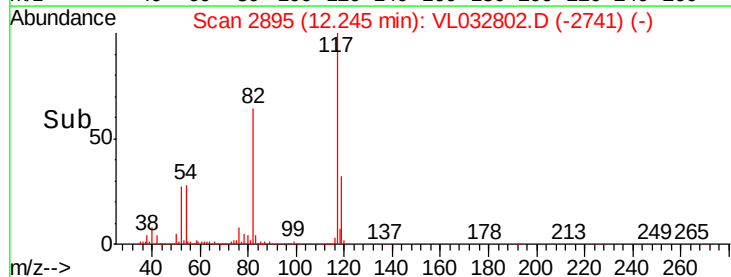
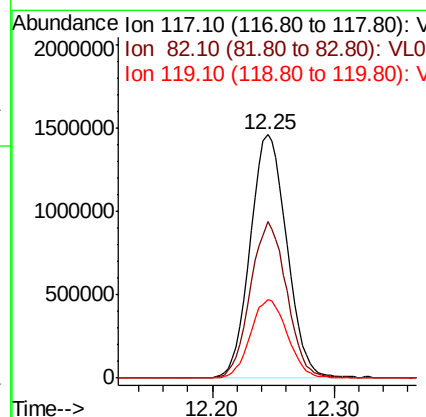
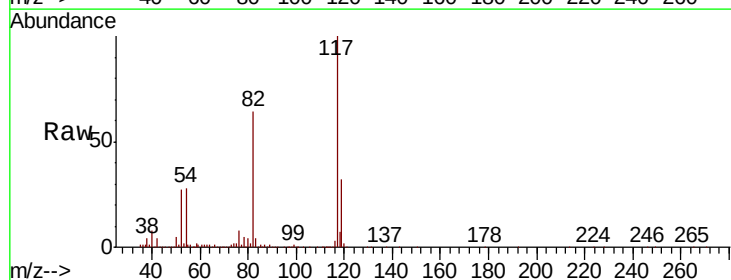
Manual Integrations
APPROVED

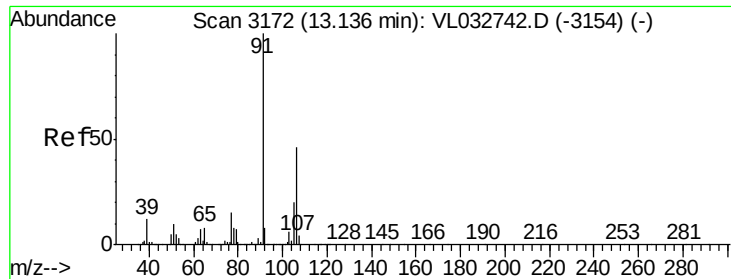
MMDadoda
11/26/2018 9:19:05 AM



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032802.D
Acq: 21 Nov 2018 6:32

Tgt Ion: 117 Resp: 3018085
Ion Ratio Lower Upper
117 100
82 64.3 51.0 76.6
119 32.8 28.0 42.0





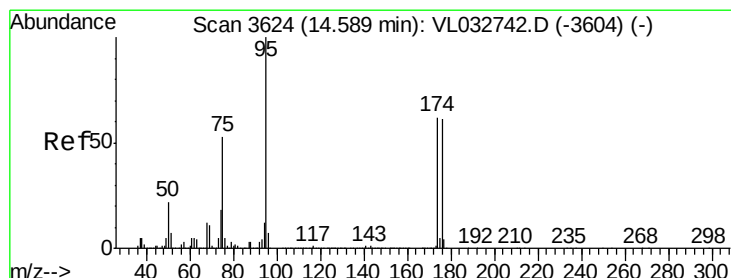
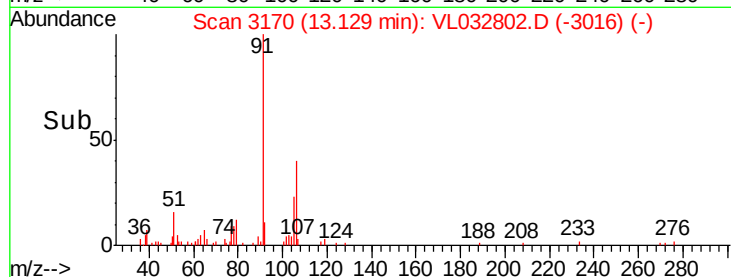
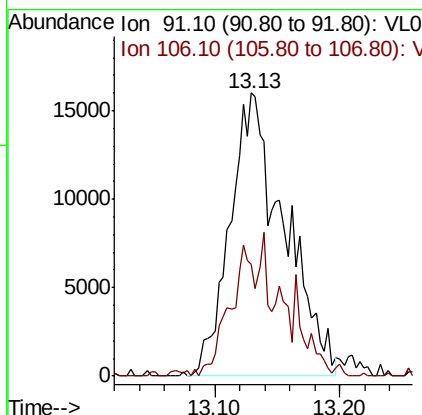
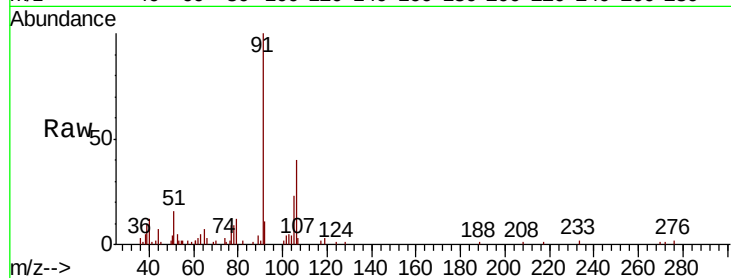
#59
m/p-Xylene
Concen: 0.149 ppbv m
RT: 13.13 min Scan# 3170
Delta R.T. -0.01 min
Lab File: VL032802.D
Acq: 21 Nov 2018 6:32

Instrument :
MSVOA_L
ClientSampled :
QA-1

Tot Ion	Ratio	Lower	Upper
91	100		
106	46.2	36.1	54.1

Manual Integrations
APPROVED

MMDadoda
11/26/2018 9:19:05 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.080 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL032802.D
Acq: 21 Nov 2018 6:32

Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.8	50.7	76.1
175	5.1	3.8	5.6

