

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL112718\
 Data File : VL032826.D
 Acq On : 28 Nov 2018 11:30
 Operator : SY/AP
 Sample : J6046-05
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-OA-01

Manual Integrations
 APPROVED

MMDadoda
 11/28/2018 4:21:41 PM

Quant Time: Nov 28 15:08:01 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 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	1306693	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3351705	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3047112	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2238333	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	104030	0.55	ppbv	96
3) Chlorodifluoromethane	3.02	51	49389m	0.48	ppbv	
4) Chloromethane	3.18	50	28235	0.49	ppbv	95
9) Propene	3.06	41	77000m	1.86	ppbv	
11) Trichlorofluoromethane	4.01	101	64161	0.36	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.57	101	14148m	0.10	ppbv	
13) Ethanol	3.67	45	255853	18.84	ppbv	99
15) Acetone	3.91	43	479192	4.02	ppbv	93
19) Isopropyl Alcohol	4.06	45	123097	1.55	ppbv #	95
20) Methylene Chloride	4.42	84	259503	4.20	ppbv	97
26) Hexane	5.79	57	219451	1.77	ppbv #	52
34) 2-Butanone	5.35	43	48683	0.28	ppbv	99
35) Carbon Tetrachloride	7.15	117	20123m	0.07	ppbv	
36) Benzene	7.02	78	82182	0.31	ppbv #	89
52) Tetrachloroethene	11.39	164	5597m	0.06	ppbv	
53) Toluene	9.96	91	192174	0.69	ppbv	98
59) m/p-Xylene	13.13	91	47487m	0.15	ppbv	

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

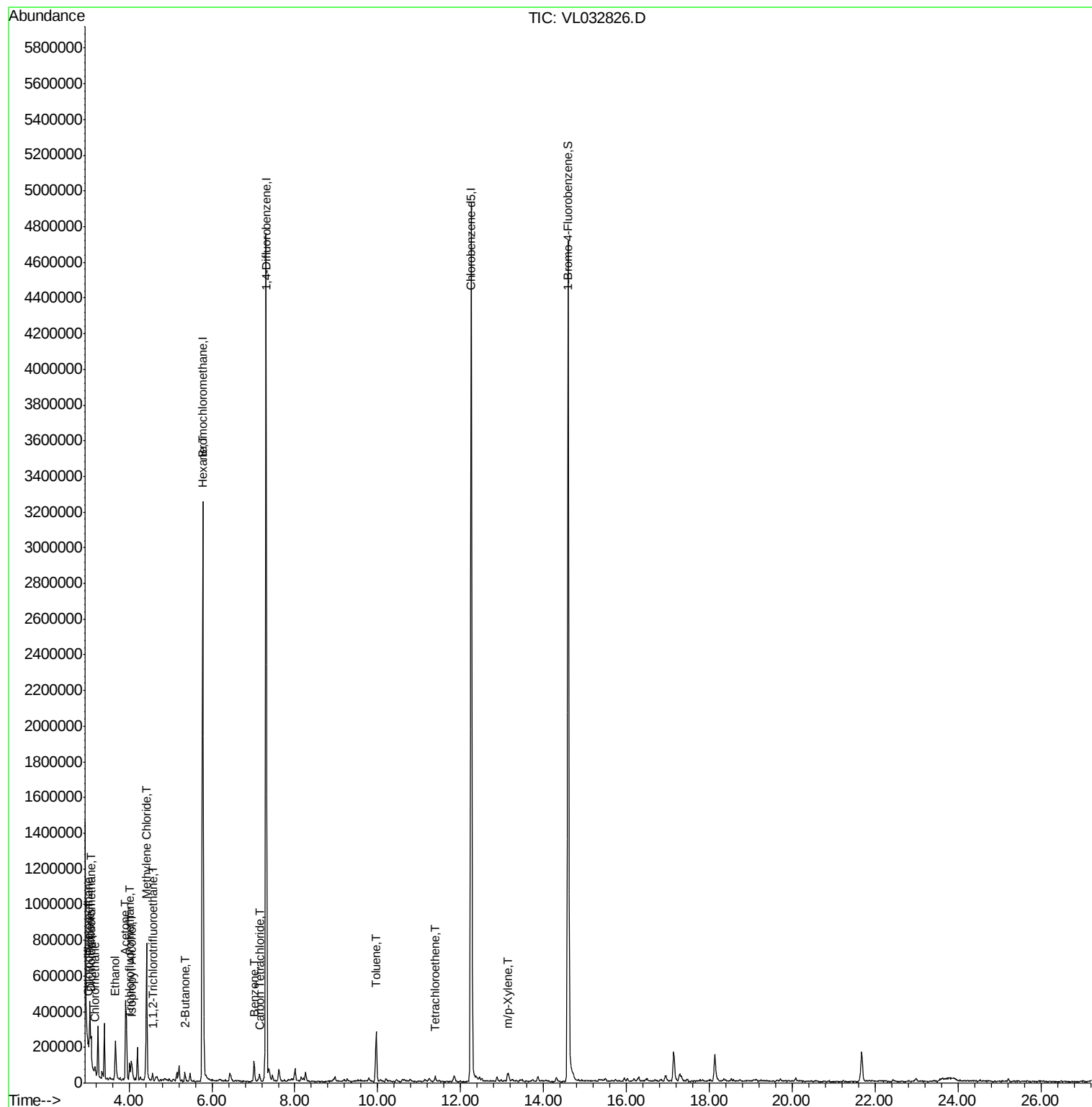
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL112718\
Data File : VL032826.D
Acq On : 28 Nov 2018 11:30
Operator : SY/AP
Sample : J6046-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

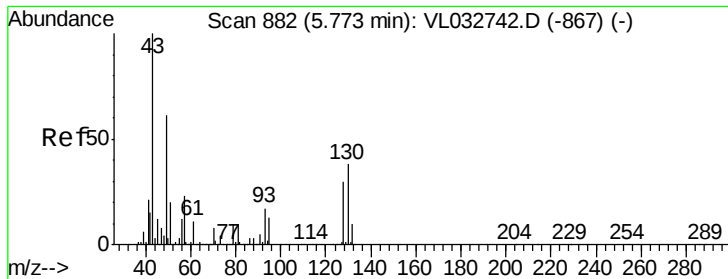
Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01

Manual Integrations
APPROVED

MMDadoda
11/28/2018 4:21:41 PM

Quant Time: Nov 28 15:08:01 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

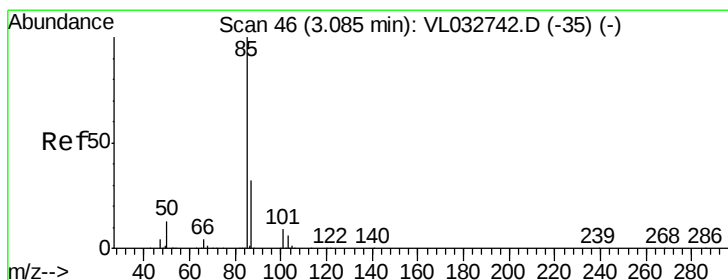
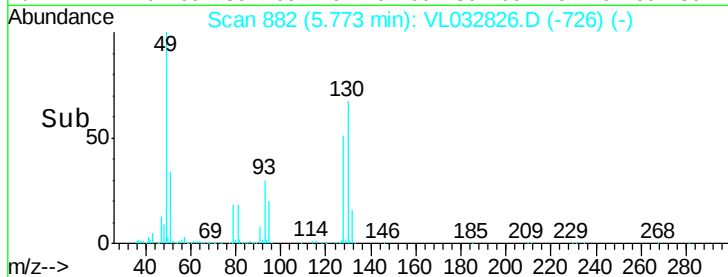
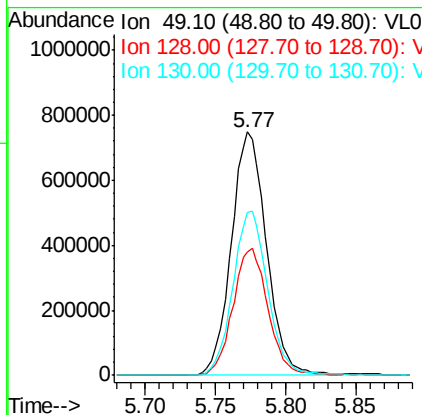
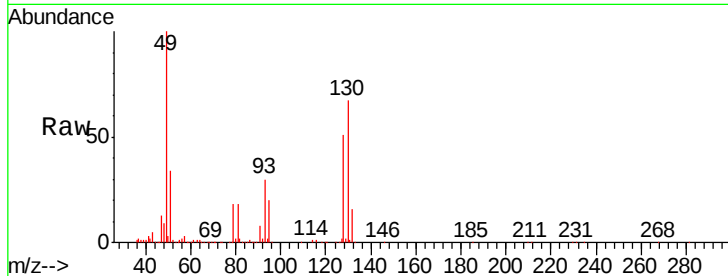
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.77 min Scan# 882
 Delta R.T. 0.00 min
 Lab File: VL032826.D
 Acq: 28 Nov 2018 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-OA-01

Tgt Ion	Ratio	Lower	Upper
49	100		
128	52.5	24.9	74.6
130	67.6	31.4	94.2

Manual Integrations
 APPROVED

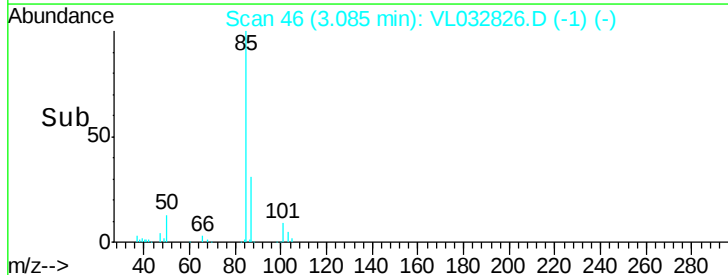
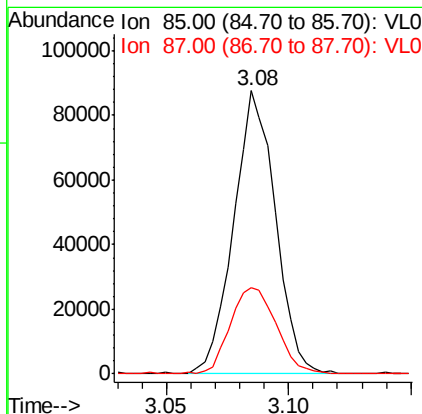
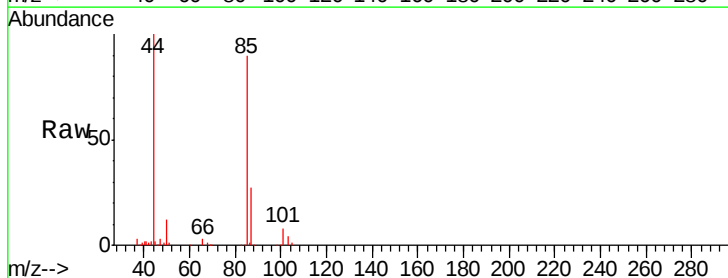
MMDadoda
 11/28/2018 4:21:41 PM

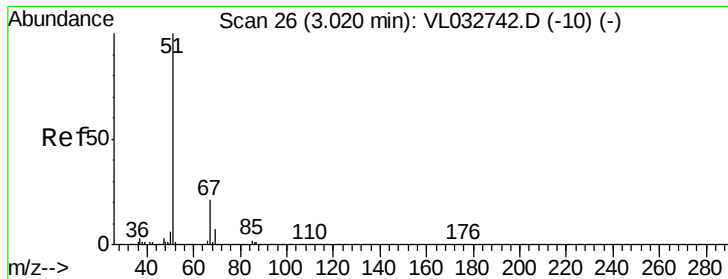


#2

Dichlorodifluoromethane
 Concen: 0.55 ppbv
 RT: 3.08 min Scan# 46
 Delta R.T. 0.00 min
 Lab File: VL032826.D
 Acq: 28 Nov 2018 11:30

Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.5	26.0	39.0





#3

Chlorodifluoromethane

Concen: 0.48 ppbv m

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01

Tgt Ion: 51 Resp: 49389

Ion Ratio Lower Upper

51 100

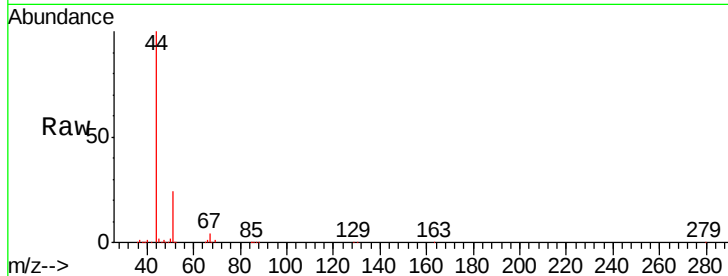
67 19.0 16.1 24.1

Manual Integrations

APPROVED

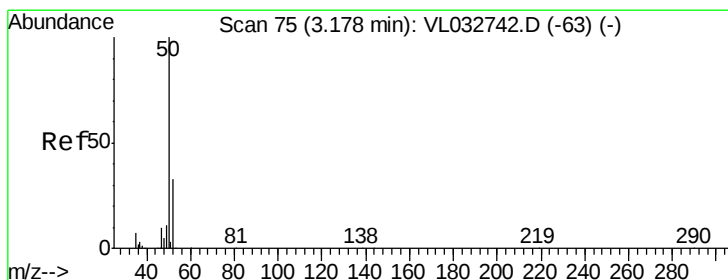
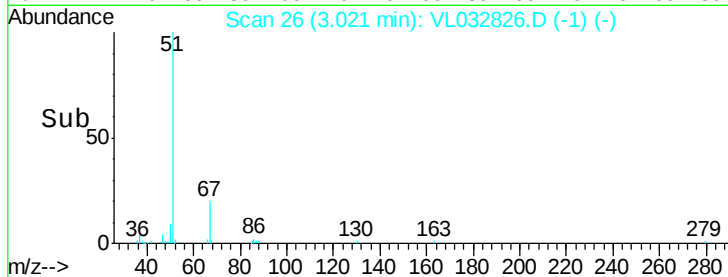
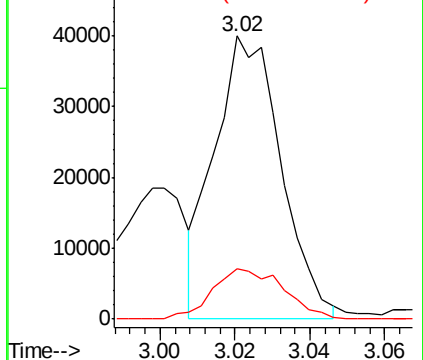
MMDadoda

11/28/2018 4:21:41 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.49 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032826.D

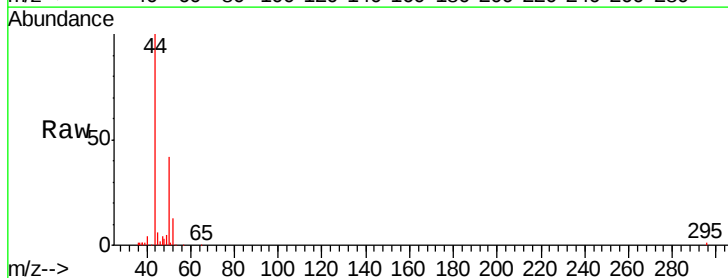
Acq: 28 Nov 2018 11:30

Tgt Ion: 50 Resp: 28235

Ion Ratio Lower Upper

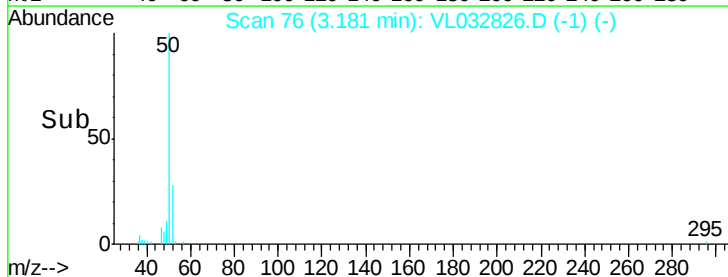
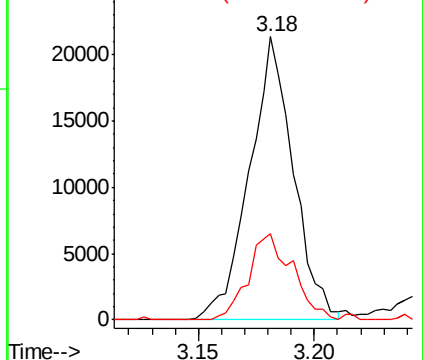
50 100

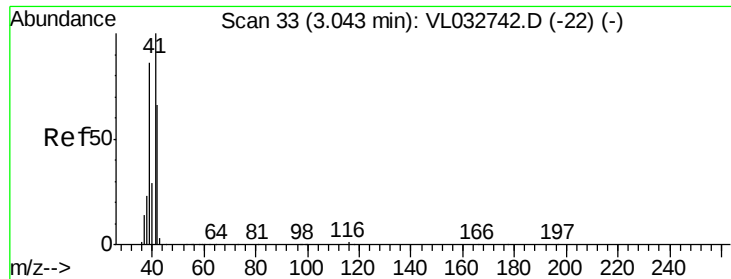
52 30.6 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.86 ppbv m

RT: 3.06 min Scan# 38

Delta R.T. 0.02 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01

Tgt Ion: 41 Resp: 77000

Ion Ratio Lower Upper

41 100

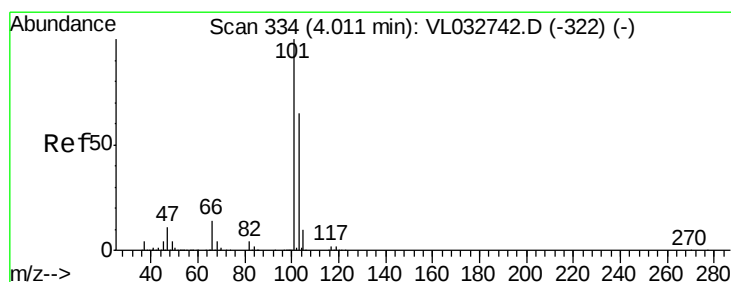
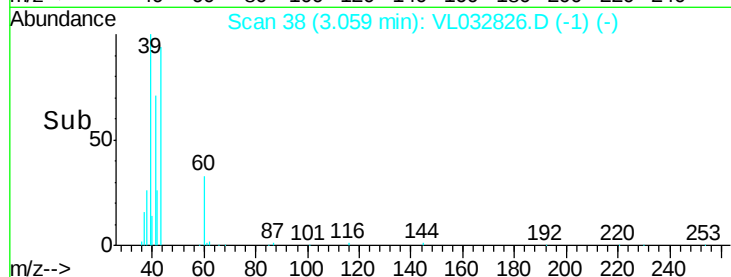
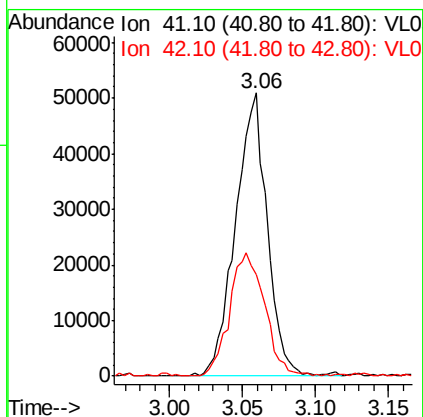
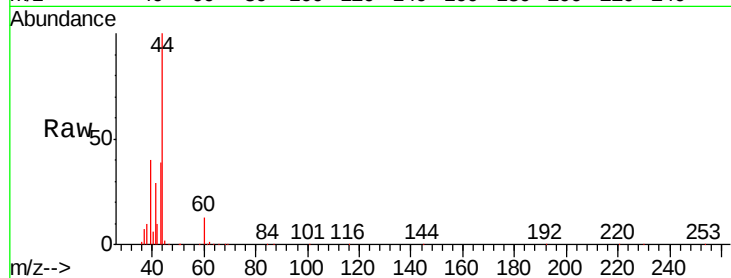
42 65.0 55.0 82.6

Manual Integrations

APPROVED

MMDadoda

11/28/2018 4:21:41 PM



#11

Trichlorofluoromethane

Concen: 0.36 ppbv

RT: 4.01 min Scan# 335

Delta R.T. 0.00 min

Lab File: VL032826.D

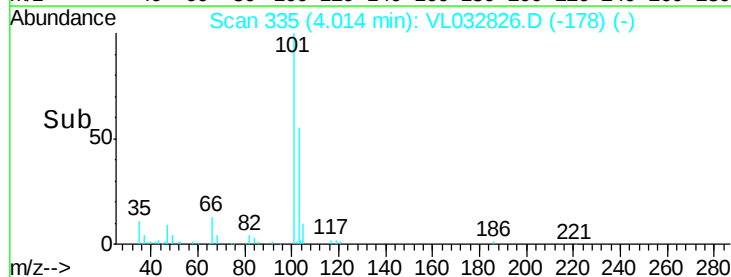
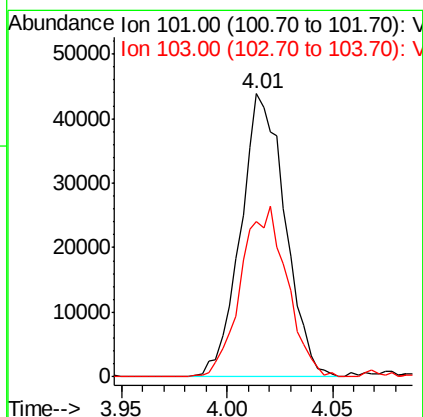
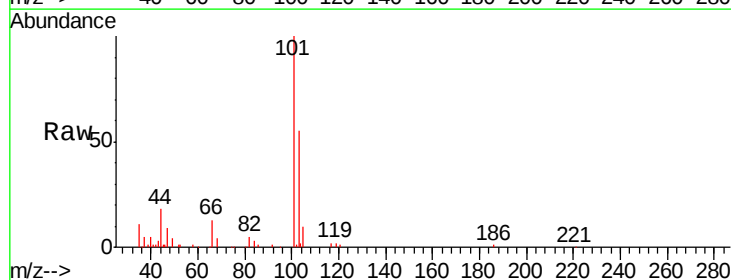
Acq: 28 Nov 2018 11:30

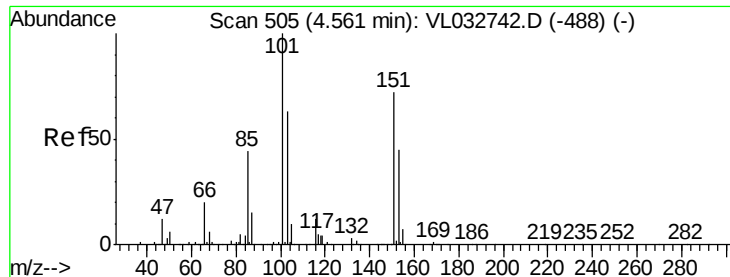
Tgt Ion: 101 Resp: 64161

Ion Ratio Lower Upper

101 100

103 54.9 51.6 77.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.10 ppbv m

RT: 4.57 min Scan# 507

Delta R.T. 0.01 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01

Tgt Ion: 101 Resp: 14148

Ion Ratio Lower Upper

101 100

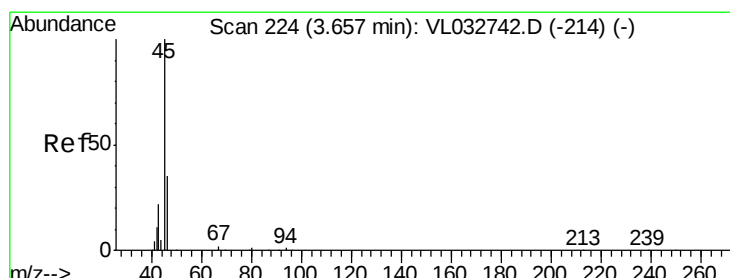
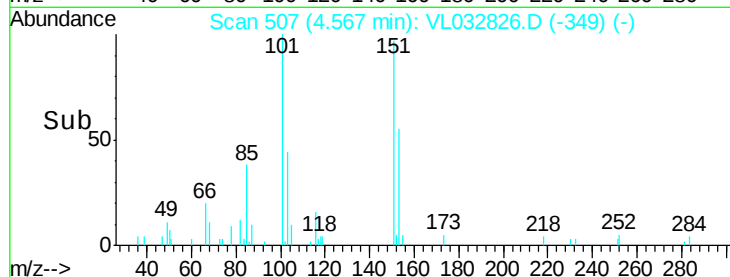
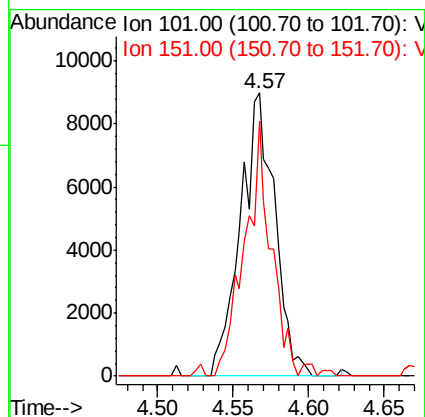
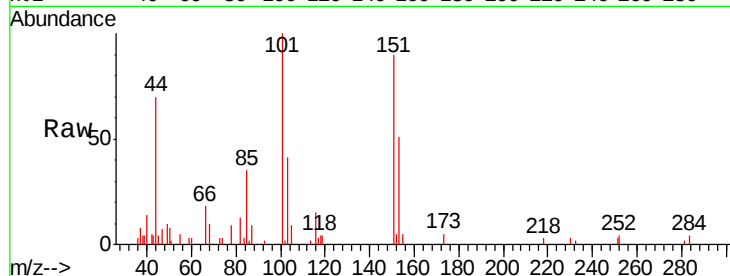
151 71.7 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

11/28/2018 4:21:41 PM



#13

Ethanol

Concen: 18.84 ppbv

RT: 3.67 min Scan# 229

Delta R.T. 0.02 min

Lab File: VL032826.D

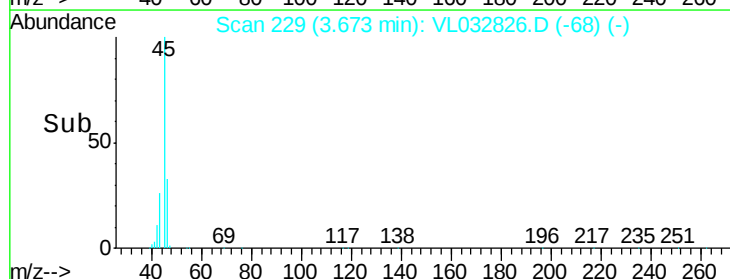
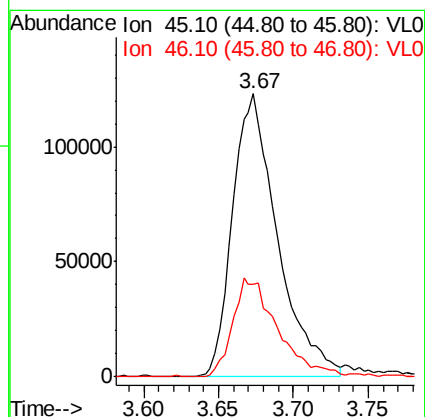
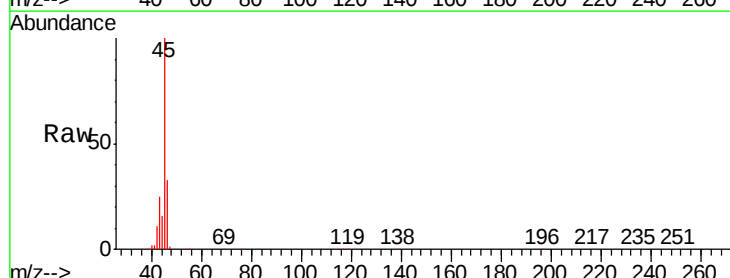
Acq: 28 Nov 2018 11:30

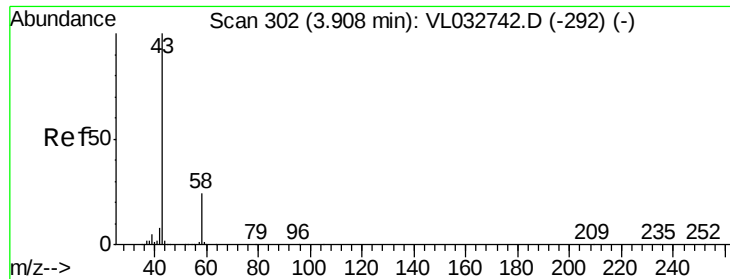
Tgt Ion: 45 Resp: 255853

Ion Ratio Lower Upper

45 100

46 35.9 14.5 57.9





#15

Acetone

Concen: 4.02 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01

Tgt Ion: 43 Resp: 479192

Ion Ratio Lower Upper

43 100

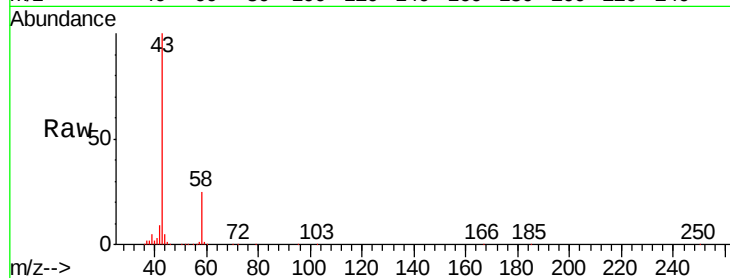
58 23.0 21.1 31.7

Manual Integrations

APPROVED

MMDadoda

11/28/2018 4:21:41 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

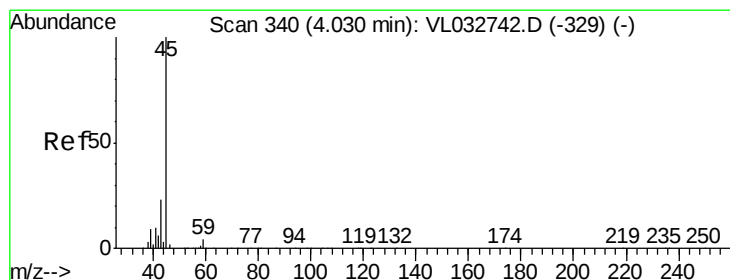
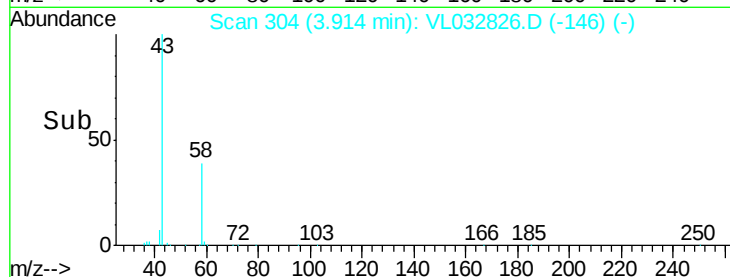
300000

200000

100000

0

Time-->



#19

Isopropyl Alcohol

Concen: 1.55 ppbv

RT: 4.06 min Scan# 348

Delta R.T. 0.03 min

Lab File: VL032826.D

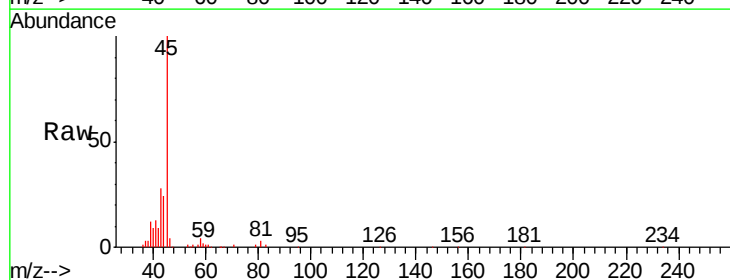
Acq: 28 Nov 2018 11:30

Tgt Ion: 45 Resp: 123097

Ion Ratio Lower Upper

45 100

58 3.7 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.06

60000

50000

40000

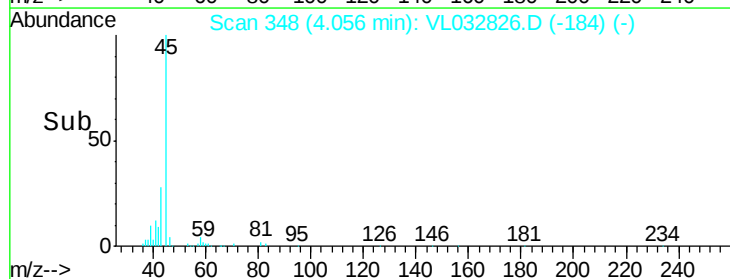
30000

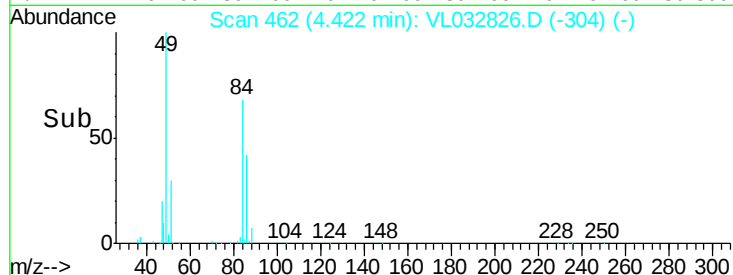
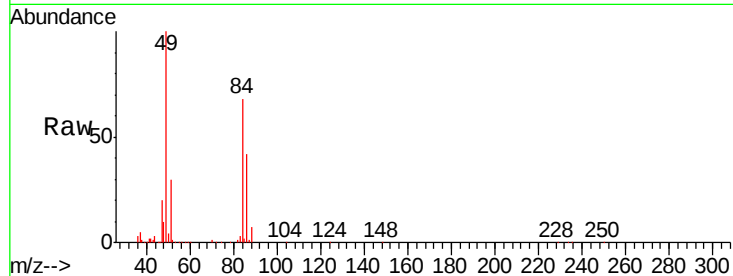
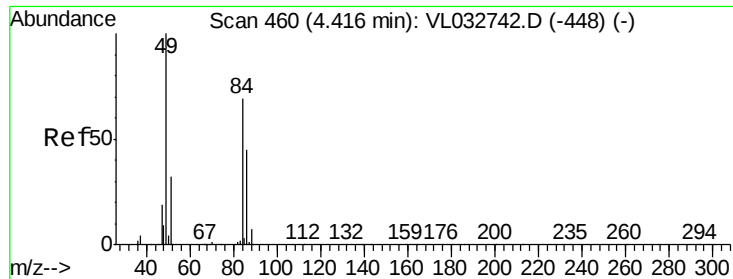
20000

10000

0

Time-->





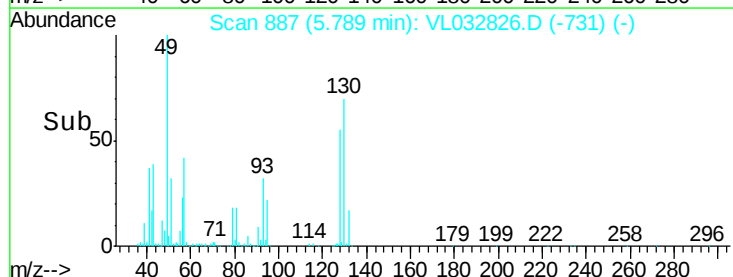
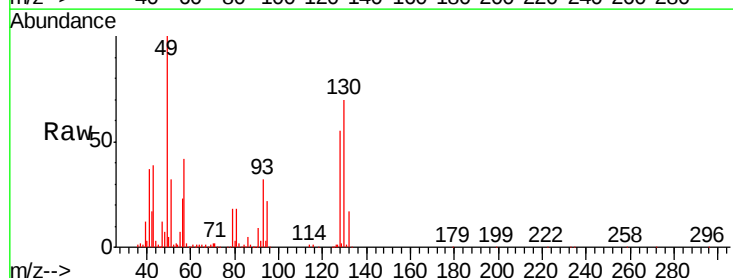
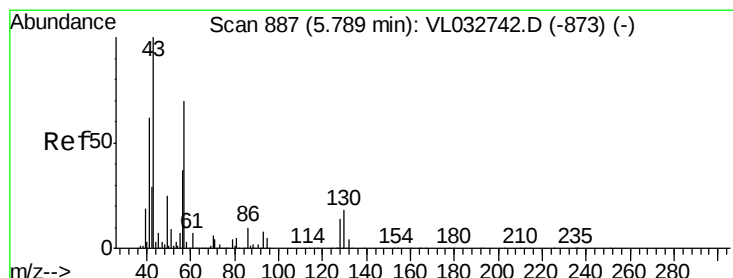
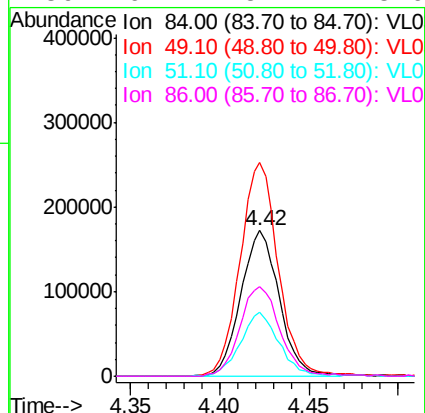
#20
Methylene Chloride
Concen: 4.20 ppbv
RT: 4.42 min Scan# 462
Delta R.T. 0.01 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Tgt Ion	Ratio	Resp	Lower	Upper
84	100	259503		
49	146.7	115.8	173.6	
51	44.1	36.9	55.3	
86	61.4	52.4	78.6	

Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01

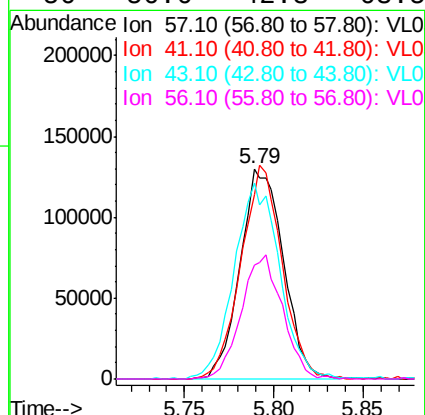
Manual Integrations
APPROVED

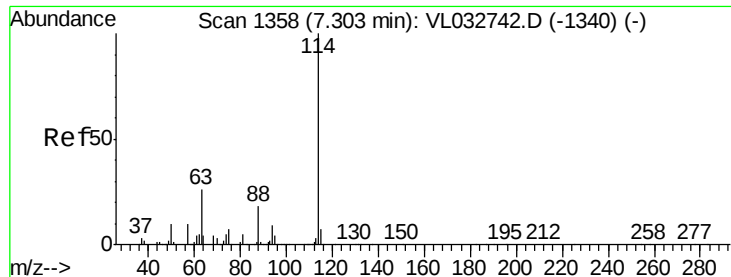
MMDadoda
11/28/2018 4:21:41 PM



#26
Hexane
Concen: 1.77 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	219451		
41	97.4	70.3	105.5	
43	99.0	174.0	261.0#	
56	56.6	42.3	63.5	





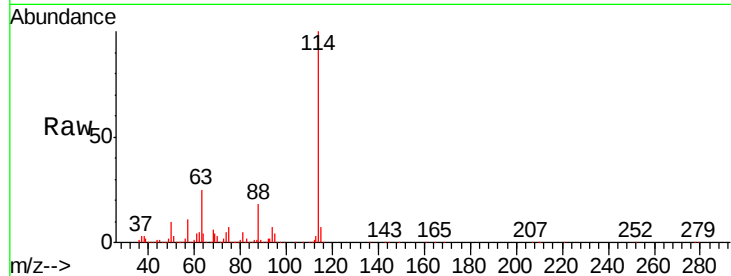
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VL032826.D
 Acq: 28 Nov 2018 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-OA-01

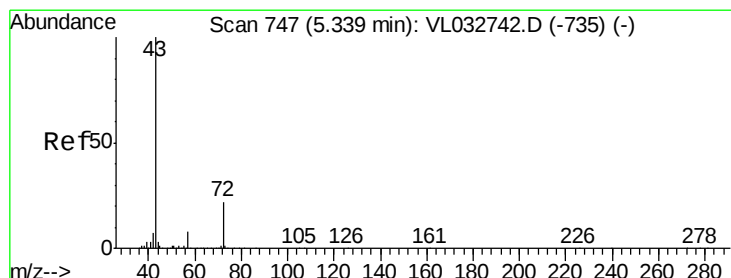
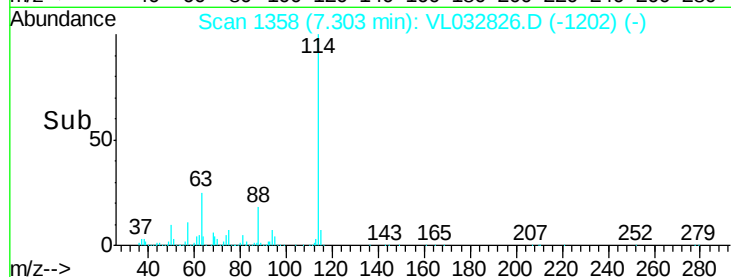
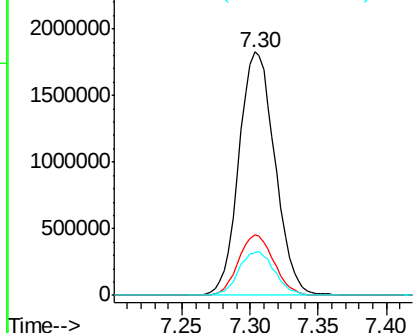
Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.8	20.9	31.3
88	17.9	14.4	21.6

Manual Integrations
 APPROVED

MMDadoda
 11/28/2018 4:21:41 PM

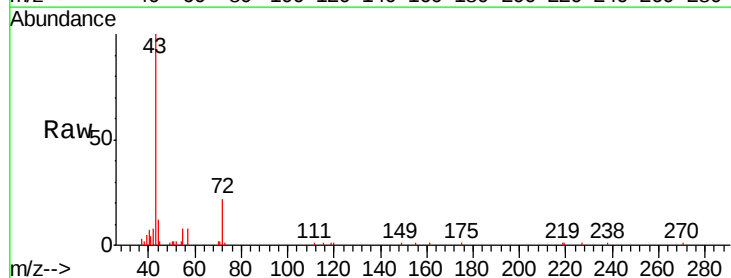


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

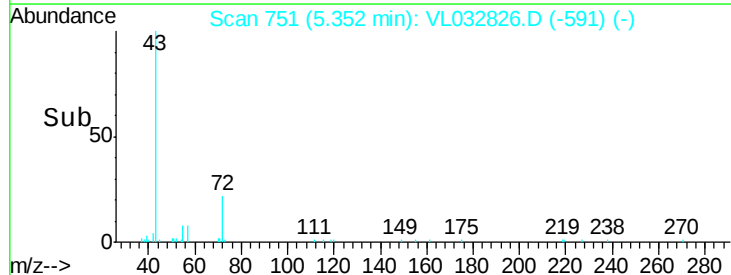
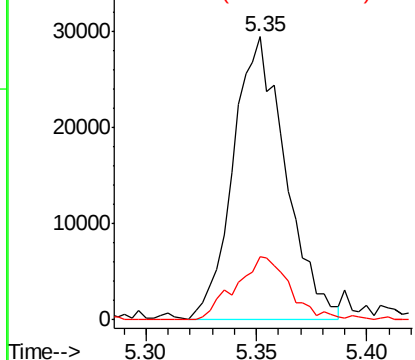


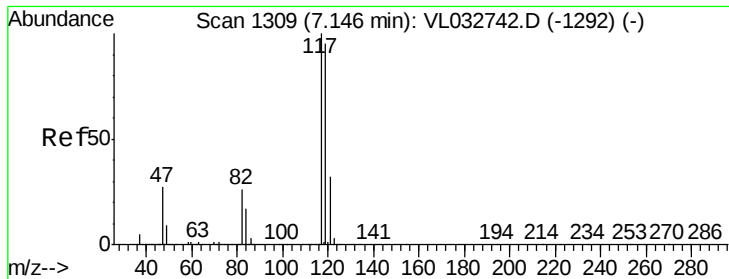
#34
 2-Butanone
 Concen: 0.28 ppbv
 RT: 5.35 min Scan# 751
 Delta R.T. 0.01 min
 Lab File: VL032826.D
 Acq: 28 Nov 2018 11:30

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.4	27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.07 ppbv m

RT: 7.15 min Scan# 1309

Delta R.T. 0.00 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Instrument :

MSVOA_L

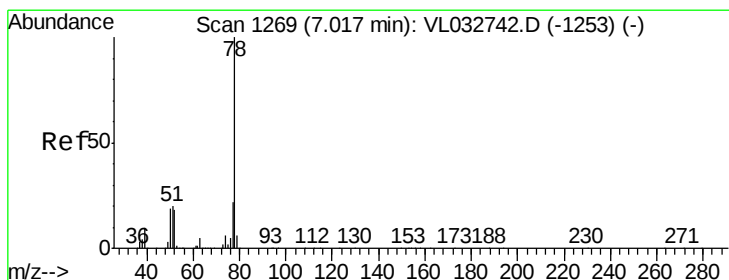
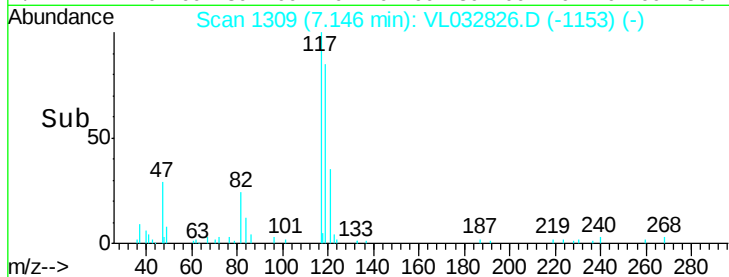
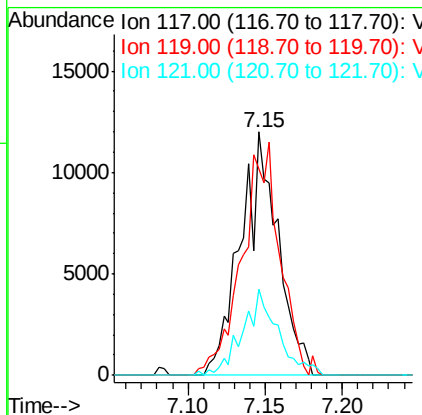
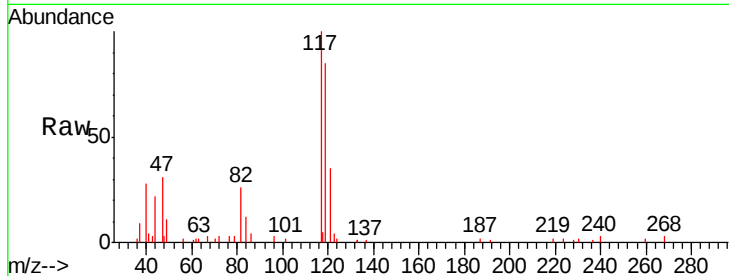
ClientSampleId :

EP2-OA-01

Tgt Ion:	117	Resp:	20123
Ion Ratio	Lower	Upper	
117	100		
119	84.6	76.1	114.1
121	35.2	25.4	38.0

Manual Integrations
APPROVED

MMDadoda
11/28/2018 4:21:41 PM



#36

Benzene

Concen: 0.31 ppbv

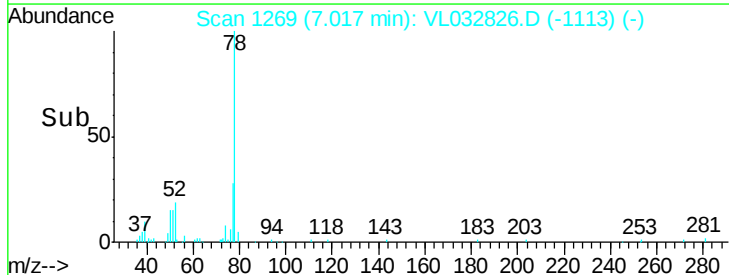
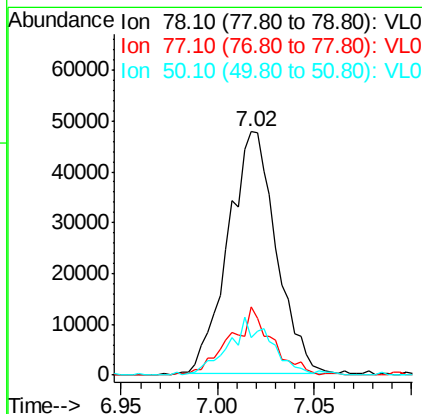
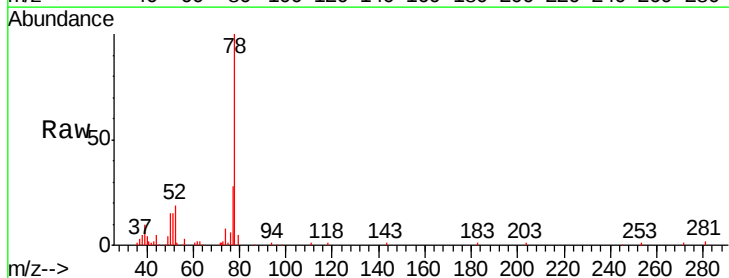
RT: 7.02 min Scan# 1269

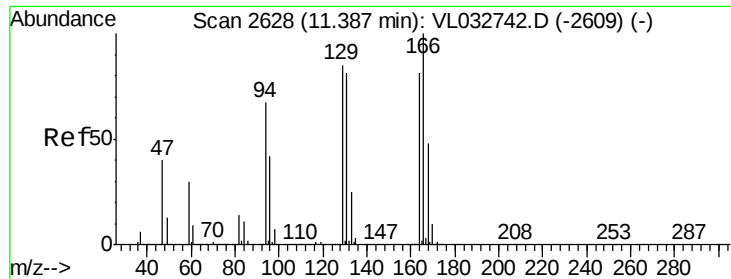
Delta R.T. 0.00 min

Lab File: VL032826.D

Acq: 28 Nov 2018 11:30

Tgt Ion:	78	Resp:	82182
Ion Ratio	Lower	Upper	
78	100		
77	27.8	17.8	26.8#
50	14.9	15.4	23.0#





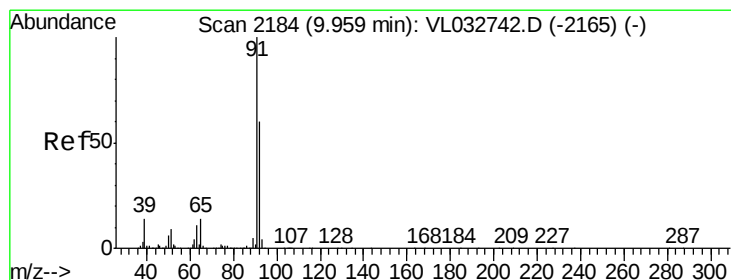
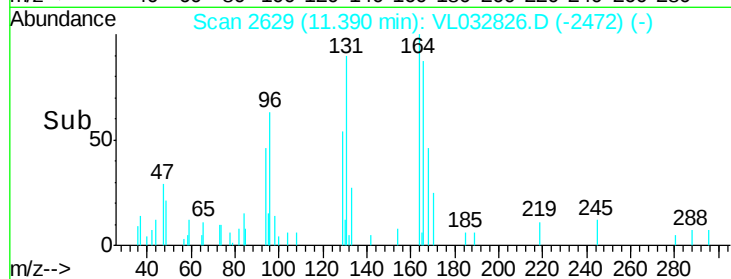
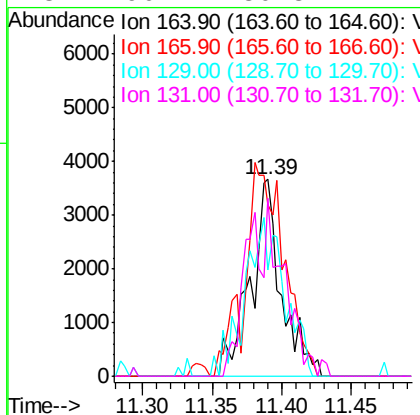
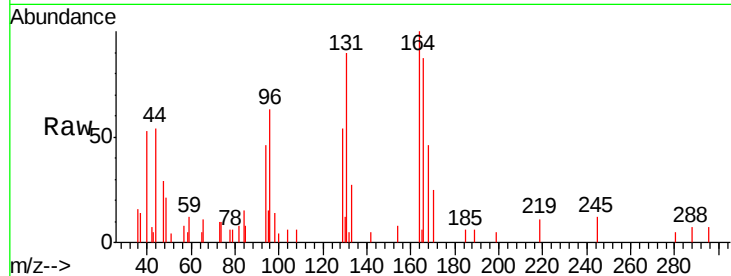
#52
Tetrachloroethene
Concen: 0.06 ppbv m
RT: 11.39 min Scan# 2629
Delta R.T. 0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	87.4	99.3	148.9#
129	53.9	83.9	125.9#
131	90.2	80.8	121.2

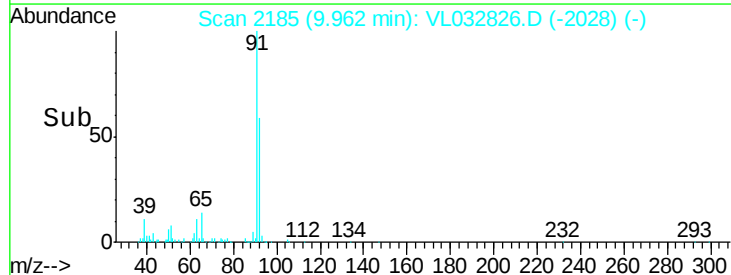
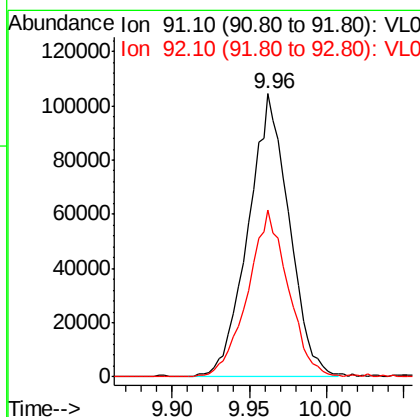
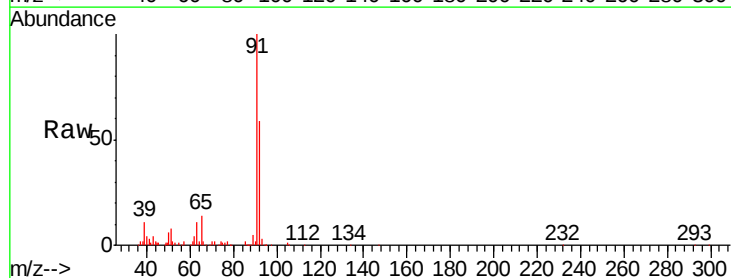
Manual Integrations
APPROVED

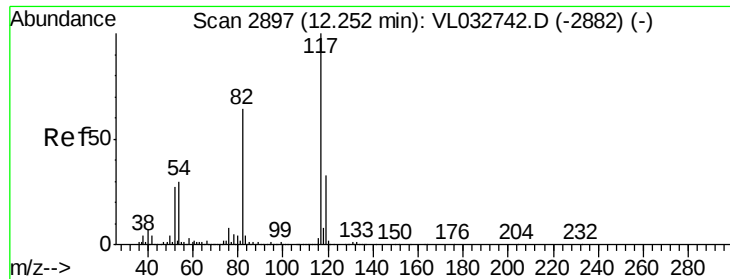
MMDadoda
11/28/2018 4:21:41 PM



#53
Toluene
Concen: 0.69 ppbv
RT: 9.96 min Scan# 2185
Delta R.T. 0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.4	47.9	71.9





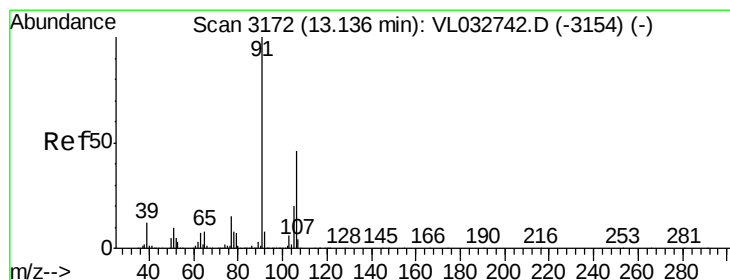
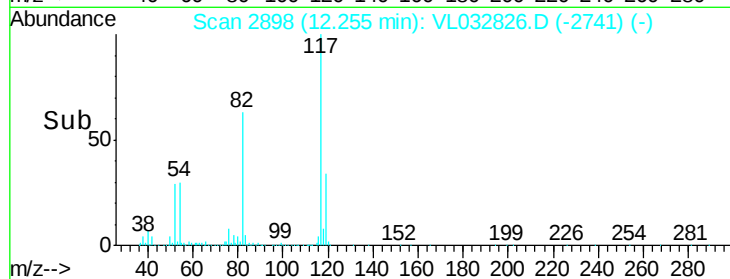
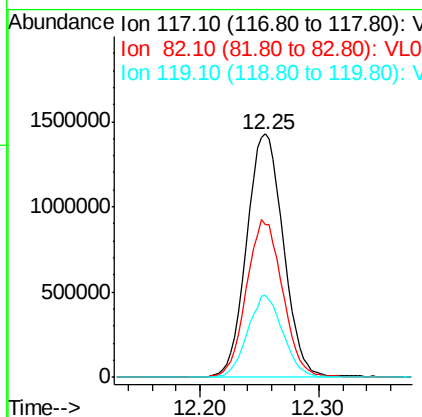
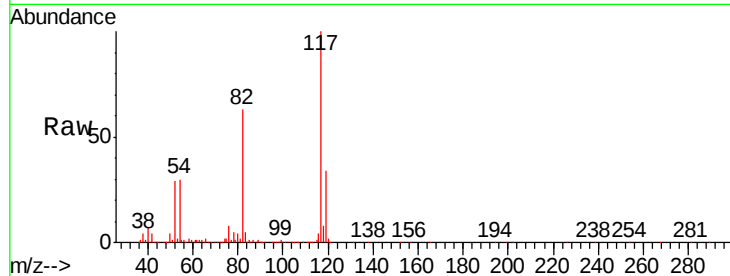
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. 0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01

Tgt Ion: 117 Resp: 3047112
Ion Ratio Lower Upper
117 100
82 64.3 51.0 76.6
119 32.4 28.0 42.0

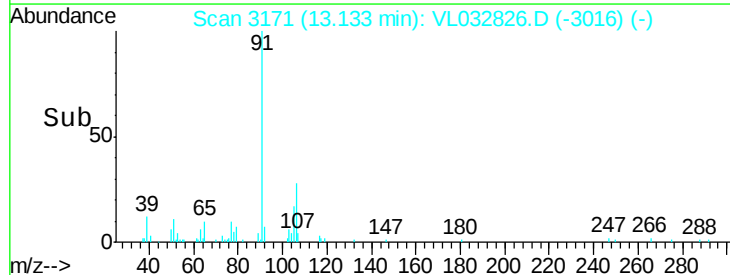
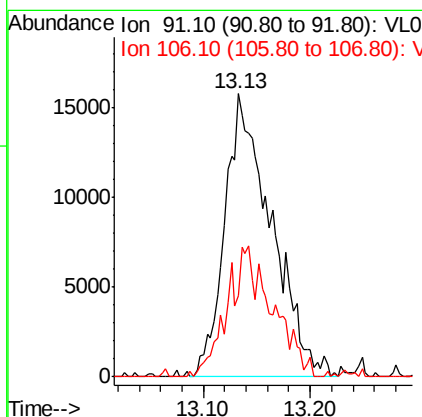
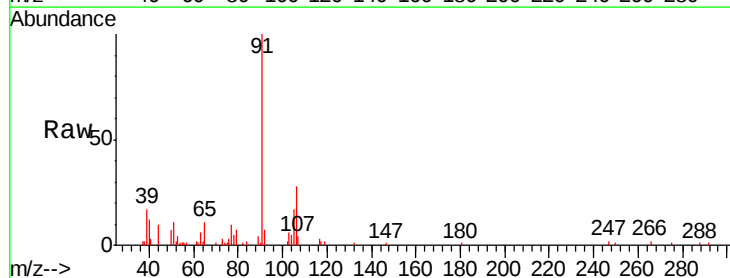
Manual Integrations
APPROVED

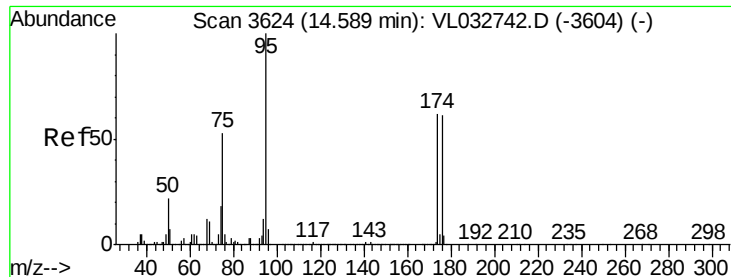
MMDadoda
11/28/2018 4:21:41 PM



#59
m/p-Xylene
Concen: 0.15 ppbv m
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL032826.D
Acq: 28 Nov 2018 11:30

Tgt Ion: 91 Resp: 47487
Ion Ratio Lower Upper
91 100
106 45.0 36.1 54.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.82 ppbv
 RT: 14.59 min Scan# 3625
 Delta R.T. 0.00 min
 Lab File: VL032826.D
 Acq: 28 Nov 2018 11:30

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-OA-01

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.3	50.7	76.1
175	5.0	3.8	5.6

Manual Integrations
 APPROVED

MMDadoda
 11/28/2018 4:21:41 PM

