

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070218\
 Data File : VL032195.D
 Acq On : 2 Jul 2018 23:47
 Operator : SY/AP
 Sample : J3735-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Manual Integrations
 APPROVED

MMDadoda
 7/3/2018 5:17:21 PM

Quant Time: Jul 03 15:26:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1370566	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3604974	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3124845	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	2346242	9.82	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	53657	0.30	ppbv	97
3) Chlorodifluoromethane	3.07	51	91343	0.55	ppbv	99
4) Chloromethane	3.23	50	43194m	0.48	ppbv	
9) Propene	3.10	41	28259	0.36	ppbv	86
11) Trichlorofluoromethane	4.07	101	44110	0.23	ppbv	92
13) Ethanol	3.71	45	359025	15.17	ppbv	95
15) Acetone	3.97	43	387955	2.42	ppbv	96
19) Isopropyl Alcohol	4.11	45	50716m	0.38	ppbv	
20) Methylene Chloride	4.48	84	27774	0.47	ppbv	93
26) Hexane	5.86	57	38347	0.25	ppbv #	66
34) 2-Butanone	5.42	43	38034	0.17	ppbv	96
35) Carbon Tetrachloride	7.23	117	16010	0.06	ppbv	98
36) Benzene	7.10	78	45050m	0.13	ppbv	
52) Tetrachloroethene	11.47	164	6291m	0.05	ppbv	
53) Toluene	10.04	91	123446m	0.29	ppbv	

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

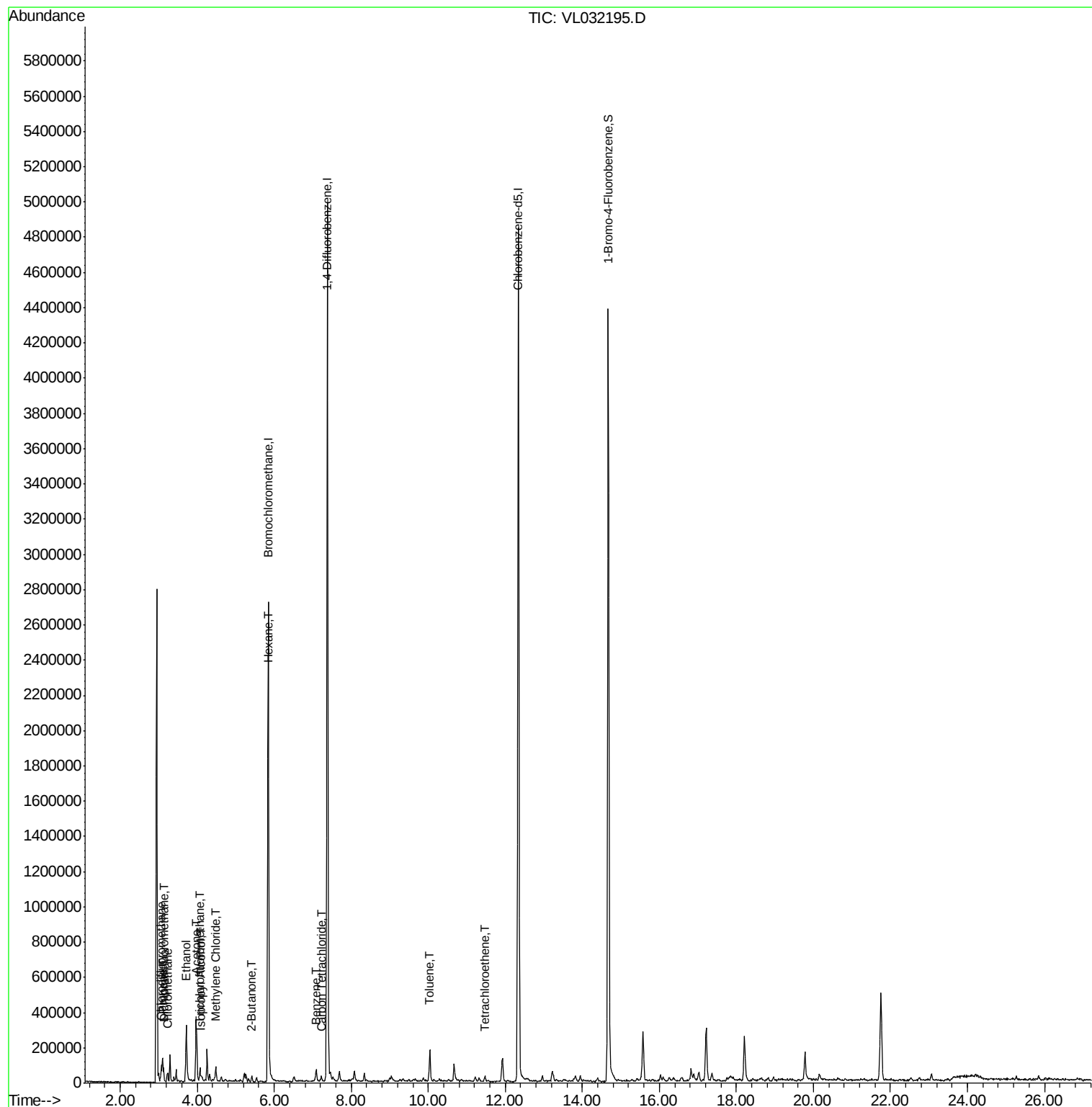
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL070218\
Data File : VL032195.D
Acq On : 2 Jul 2018 23:47
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

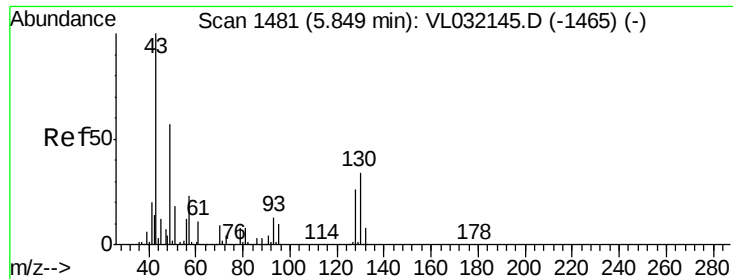
Instrument :
MSVOA_L
ClientSampleId :
SS-1

Manual Integrations
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7/3/2018 5:17:21 PM

Quant Time: Jul 03 15:26:24 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration





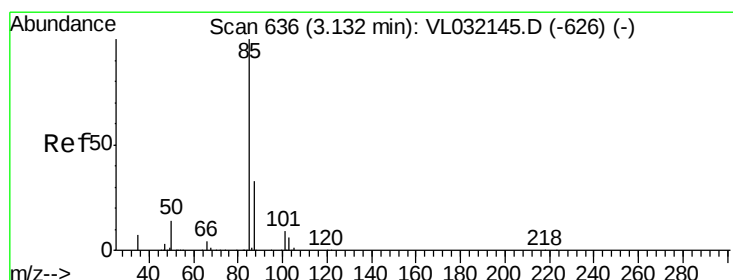
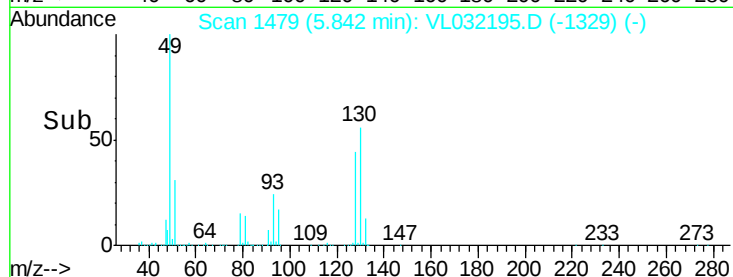
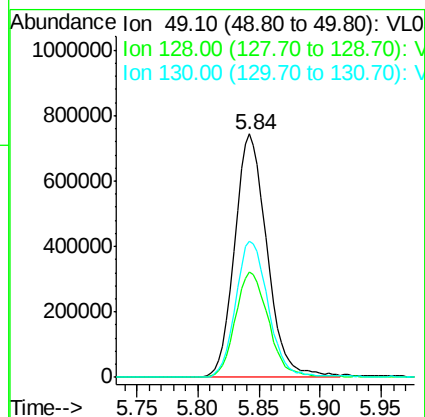
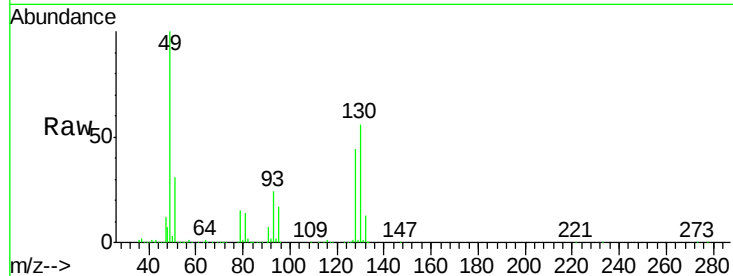
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.84 min Scan# 1479
 Delta R.T. -0.02 min
 Lab File: VL032195.D
 Acq: 2 Jul 2018 23:47

Instrument :
 MSVOA_L
 ClientSampled :
 SS-1

Tot Ion: 49 Resp: 1370566
 Ion Ratio Lower Upper
 49 100
 128 45.0 23.4 70.0
 130 56.4 30.3 90.9

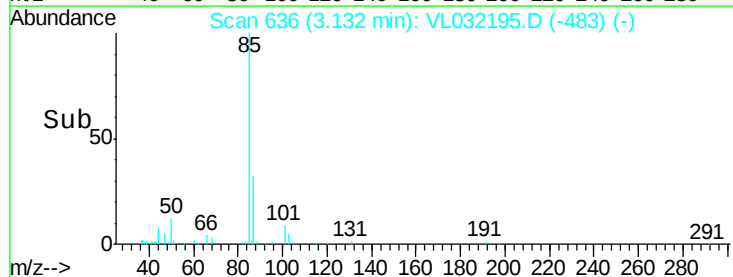
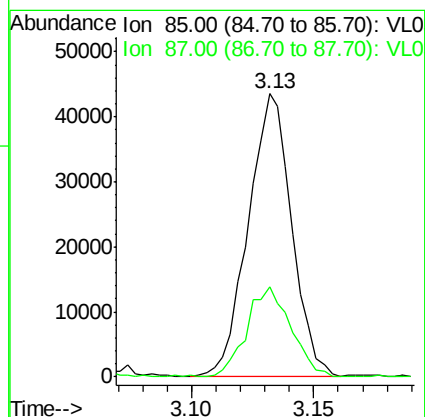
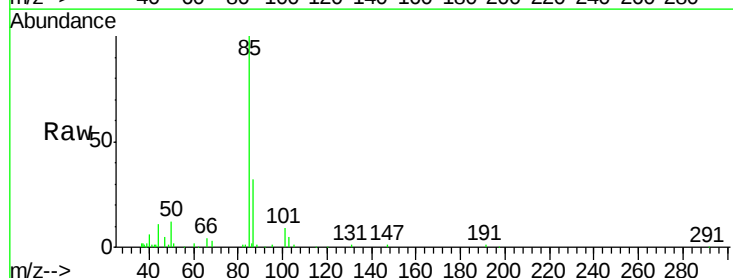
Manual Integrations
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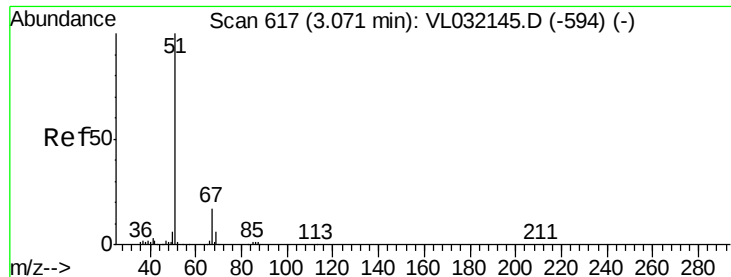
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#2
 Dichlorodifluoromethane
 Concen: 0.30 ppbv
 RT: 3.13 min Scan# 636
 Delta R.T. -0.01 min
 Lab File: VL032195.D
 Acq: 2 Jul 2018 23:47

Tgt Ion: 85 Resp: 53657
 Ion Ratio Lower Upper
 85 100
 87 31.8 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.55 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032195.D

Acq: 2 Jul 2018 23:47

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tot Ion: 51 Resp: 91343

Ion Ratio Lower Upper

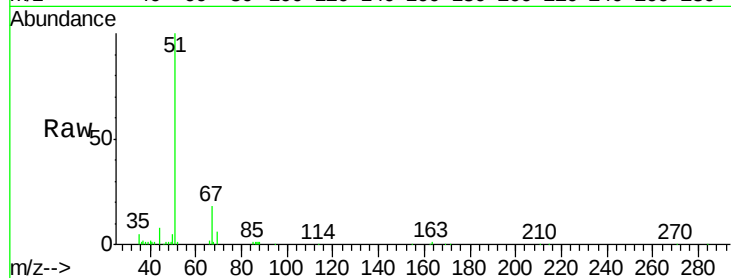
51 100

67 16.9 13.2 19.8

Manual Integrations
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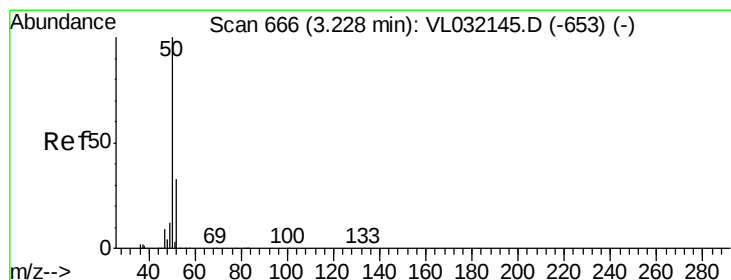
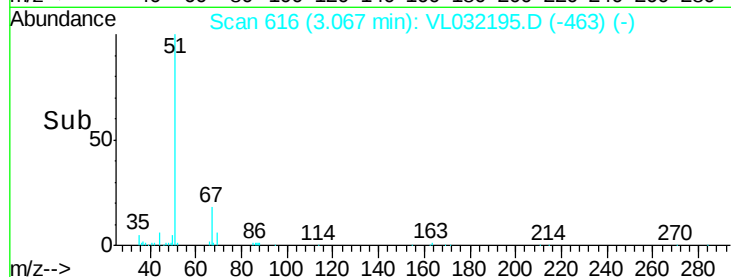
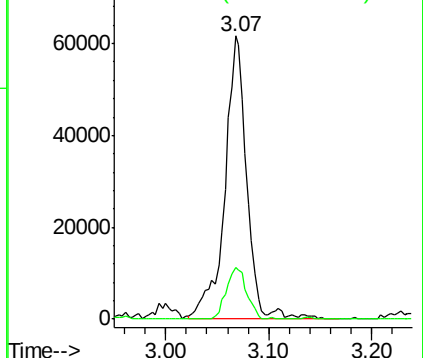
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.48 ppbv m

RT: 3.23 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL032195.D

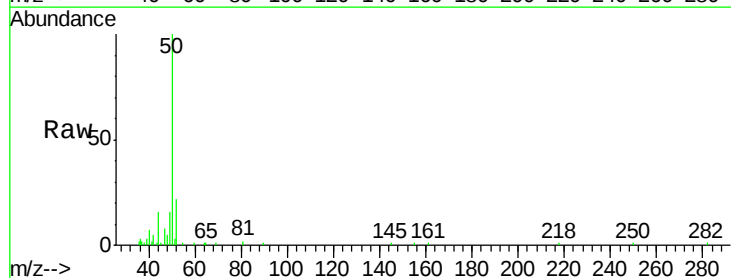
Acq: 2 Jul 2018 23:47

Tgt Ion: 50 Resp: 43194

Ion Ratio Lower Upper

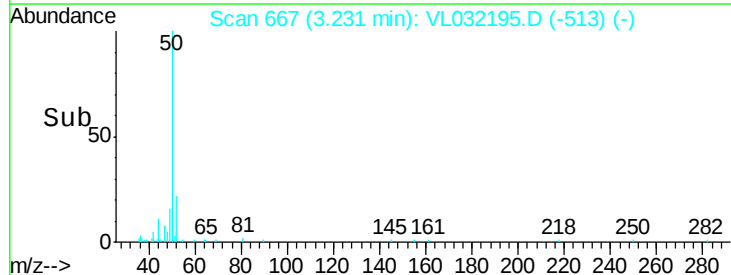
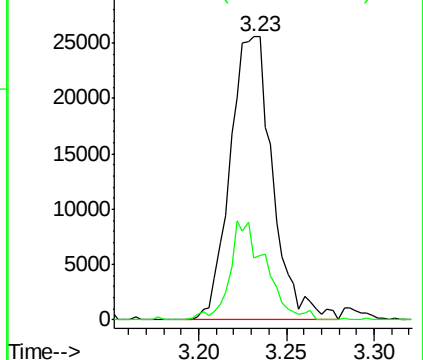
50 100

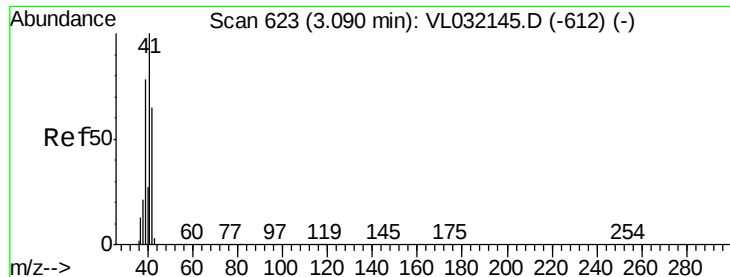
52 21.8 26.0 39.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.36 ppbv

RT: 3.10 min Scan# 626

Delta R.T. 0.00 min

Lab File: VL032195.D

Acq: 2 Jul 2018 23:47

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tot Ion: 41 Resp: 28259

Ion Ratio Lower Upper

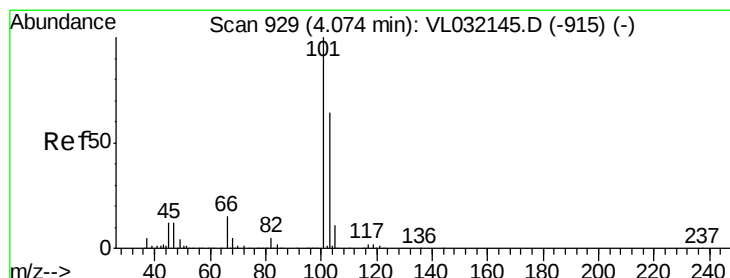
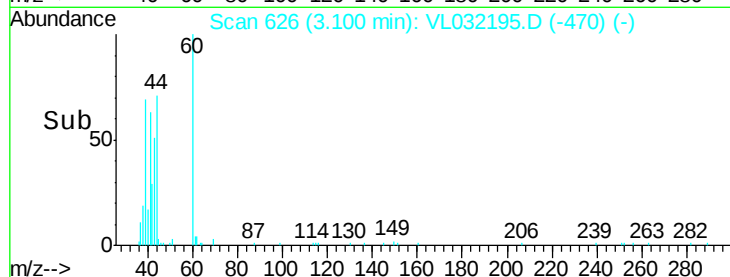
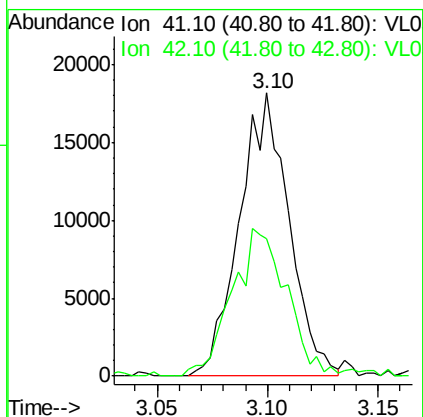
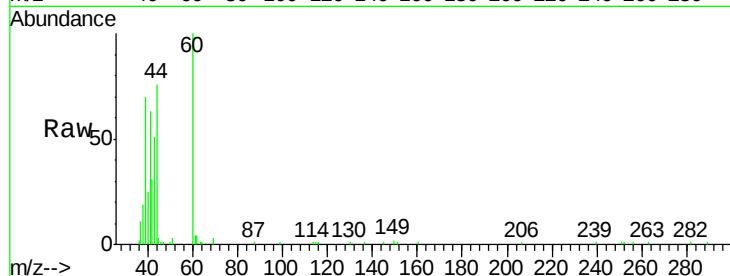
41 100

42 58.4 56.2 84.4

Manual Integrations
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#11

Trichlorofluoromethane

Concen: 0.23 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032195.D

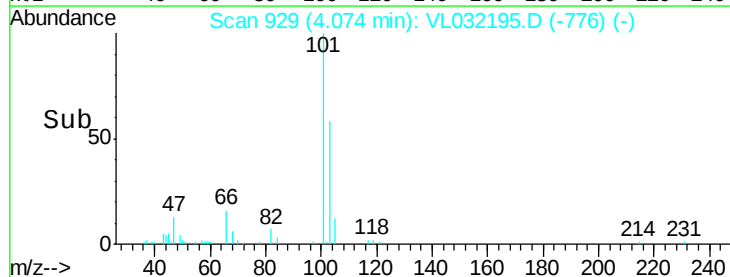
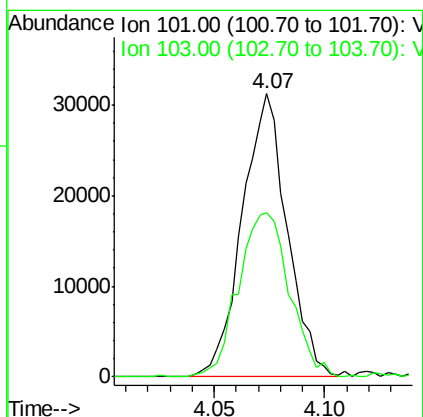
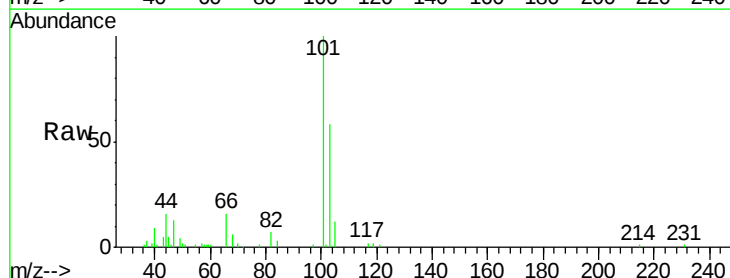
Acq: 2 Jul 2018 23:47

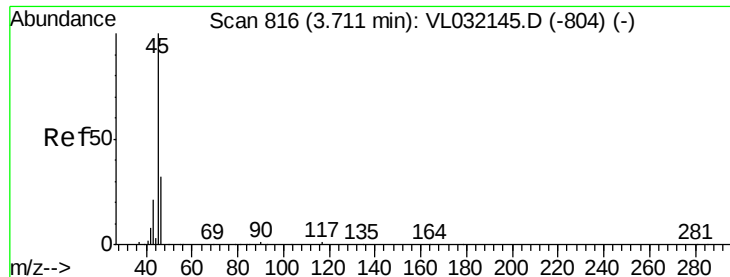
Tgt Ion: 101 Resp: 44110

Ion Ratio Lower Upper

101 100

103 58.3 51.4 77.0





#13

Ethanol

Concen: 15.17 ppbv

RT: 3.71 min Scan# 817

Delta R.T. -0.01 min

Lab File: VL032195.D

Acq: 2 Jul 2018 23:47

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tot Ion: 45 Resp: 359025

Ion Ratio Lower Upper

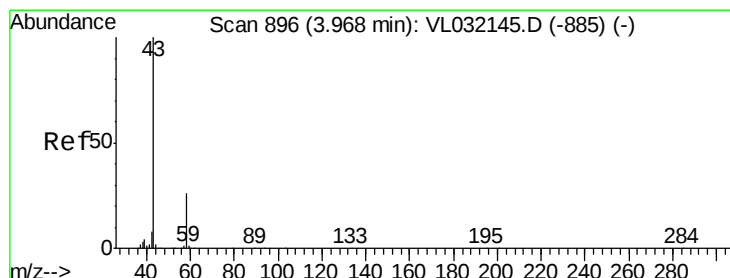
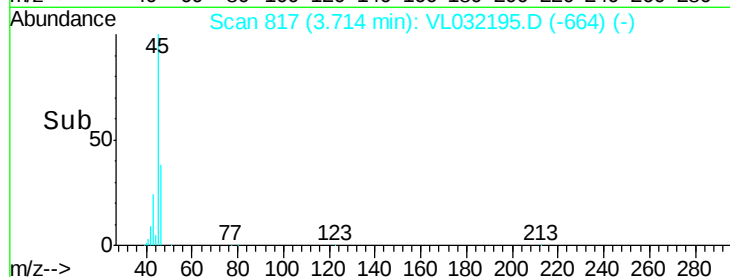
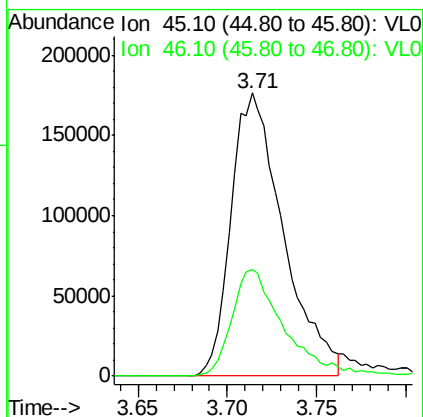
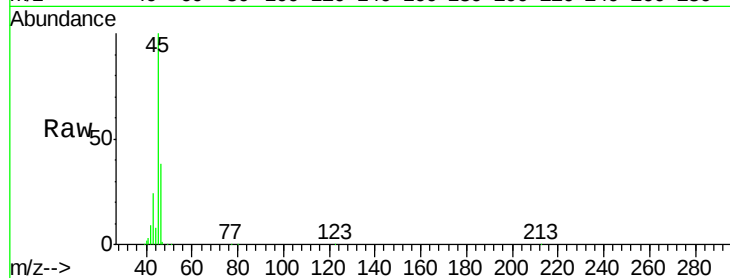
45 100

46 39.2 14.6 58.4

Manual Integrations
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#15

Acetone

Concen: 2.42 ppbv

RT: 3.97 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL032195.D

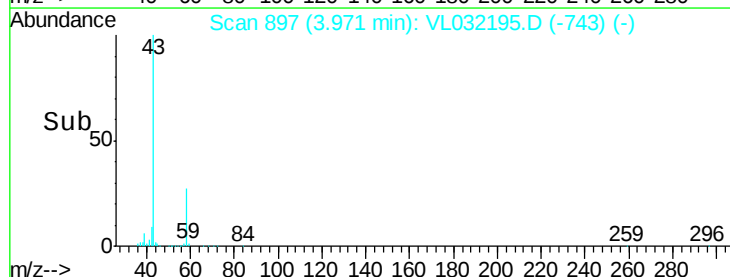
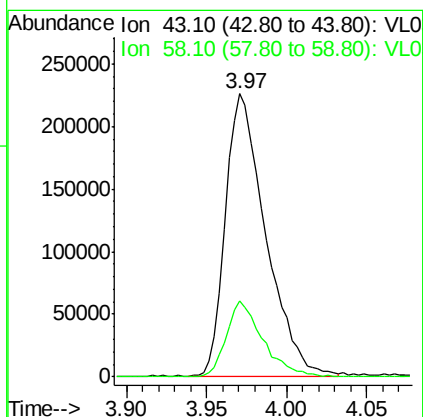
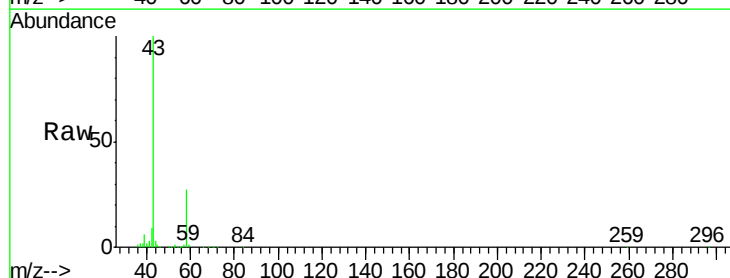
Acq: 2 Jul 2018 23:47

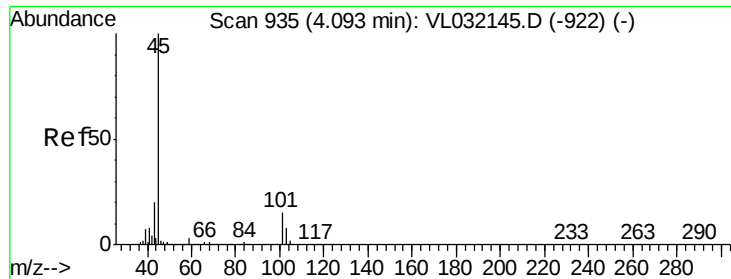
Tgt Ion: 43 Resp: 387955

Ion Ratio Lower Upper

43 100

58 24.5 21.4 32.0





#19

Isopropyl Alcohol

Concen: 0.38 ppbv m

RT: 4.11 min Scan# 939

Delta R.T. 0.00 min

Lab File: VL032195.D

Acq: 2 Jul 2018 23:47

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tot Ion: 45 Resp: 50716

Ion Ratio Lower Upper

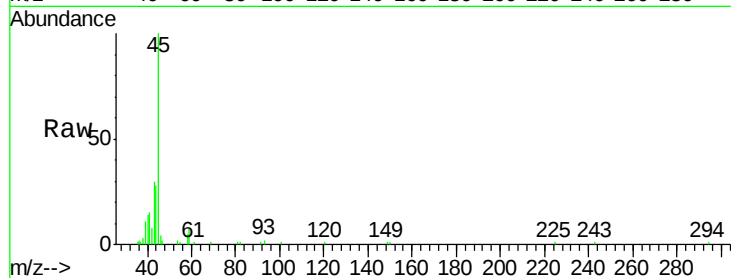
45 100

58 0.0 29.4 44.0#

Manual Integrations
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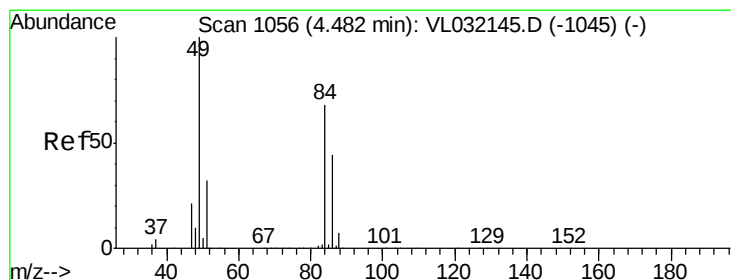
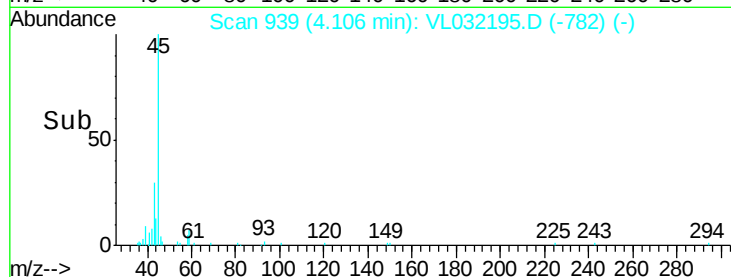
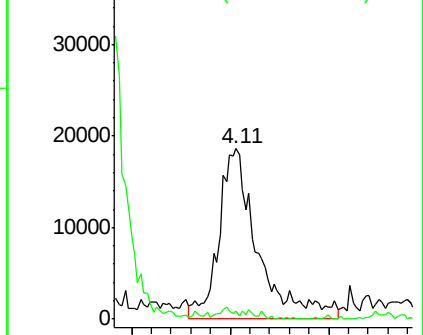
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.47 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. -0.01 min

Lab File: VL032195.D

Acq: 2 Jul 2018 23:47

Tgt Ion: 84 Resp: 27774

Ion Ratio Lower Upper

84 100

49 158.9 119.6 179.4

51 41.3 36.3 54.5

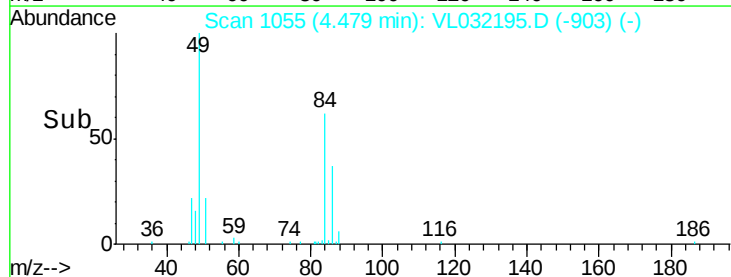
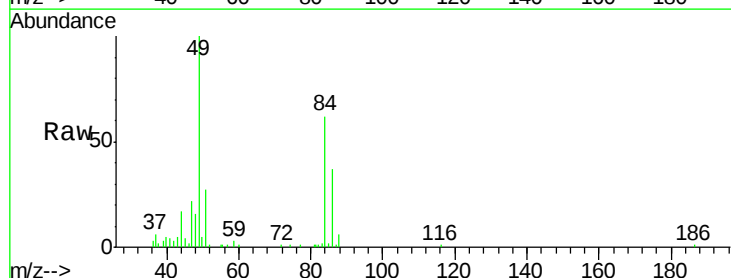
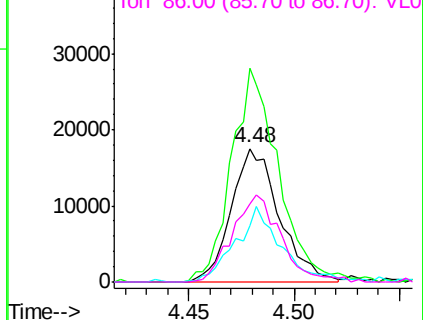
86 58.5 49.7 74.5

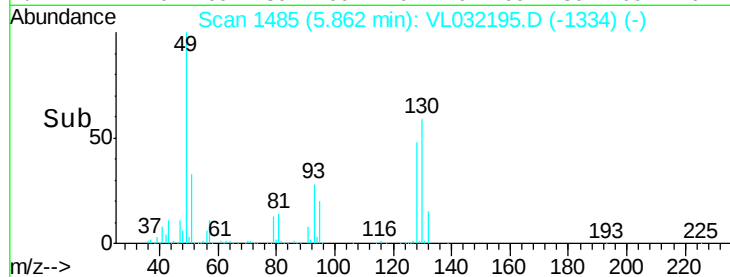
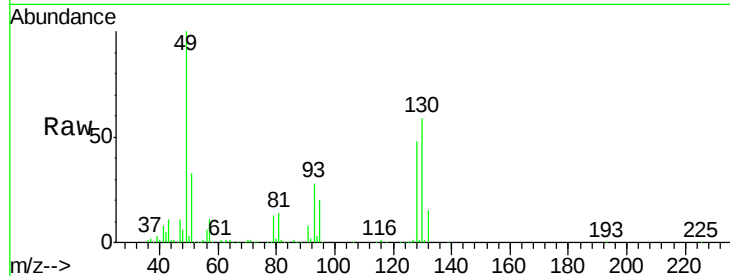
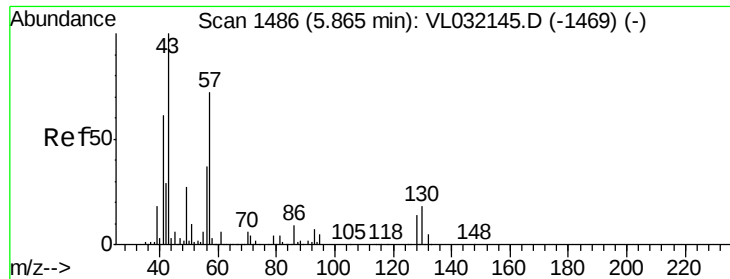
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





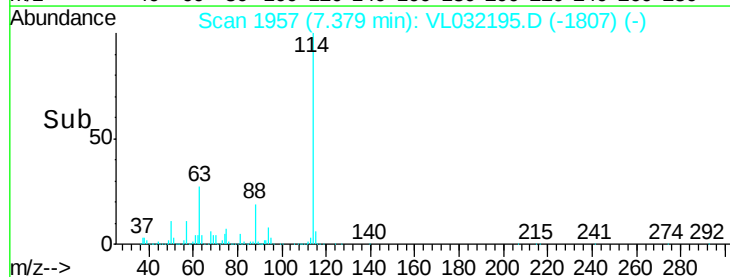
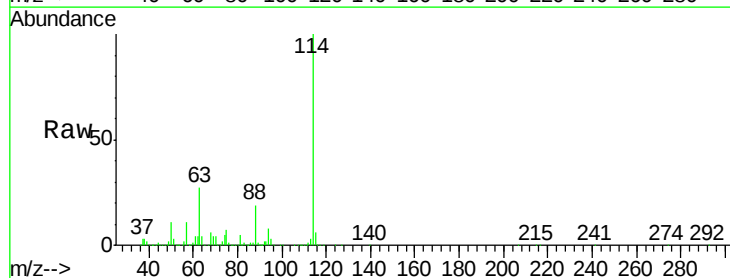
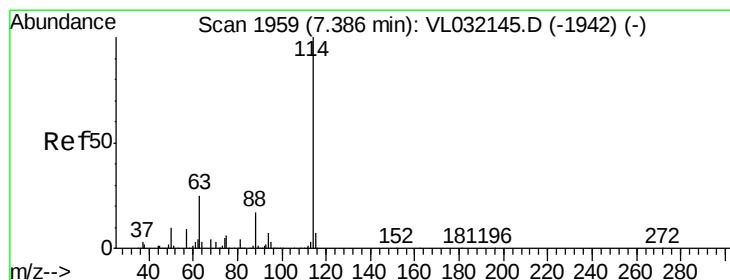
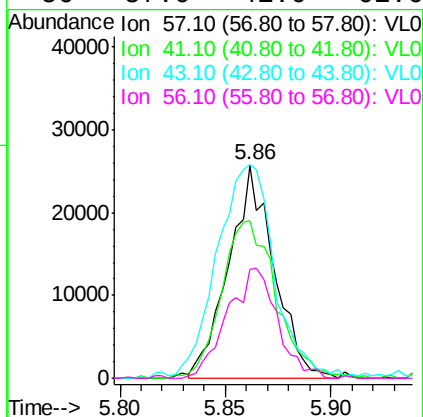
#26
Hexane
Concen: 0.25 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032195.D
Acq: 2 Jul 2018 23:47

Tot Ion	Ratio	Lower	Upper
57	100		
41	89.6	68.6	103.0
43	128.4	168.6	252.8#
56	57.0	41.0	61.6

Instrument :
MSVOA_L
ClientSampleId :
SS-1

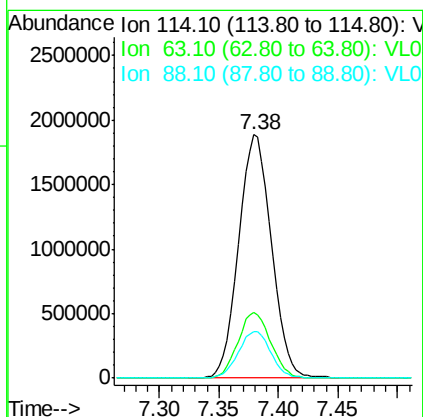
Manual Integrations
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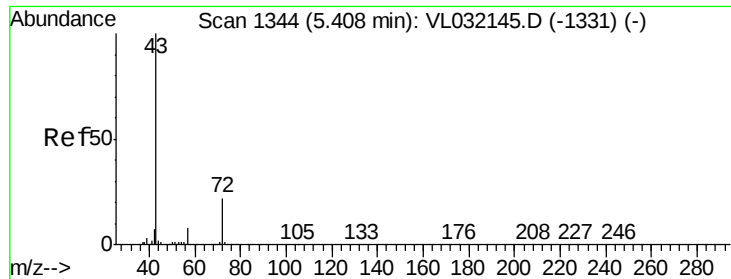
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.38 min Scan# 1957
Delta R.T. -0.02 min
Lab File: VL032195.D
Acq: 2 Jul 2018 23:47

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.1	19.1	28.7
88	19.0	13.9	20.9





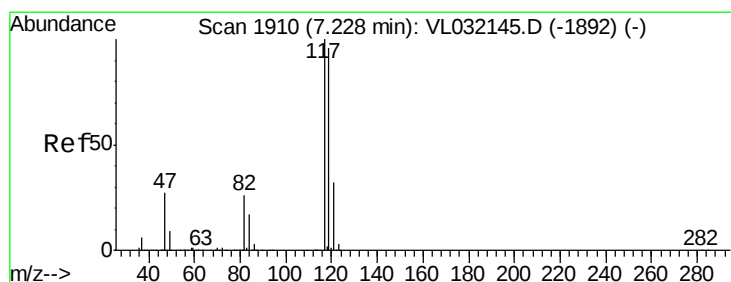
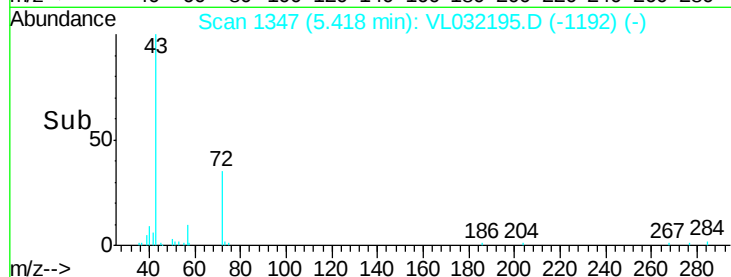
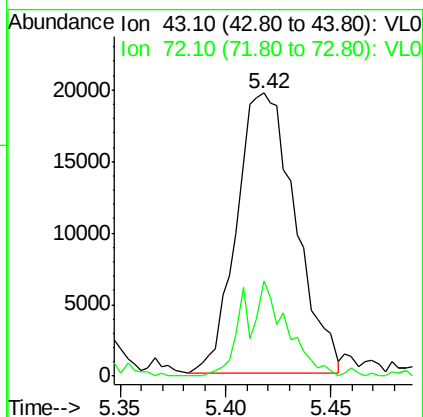
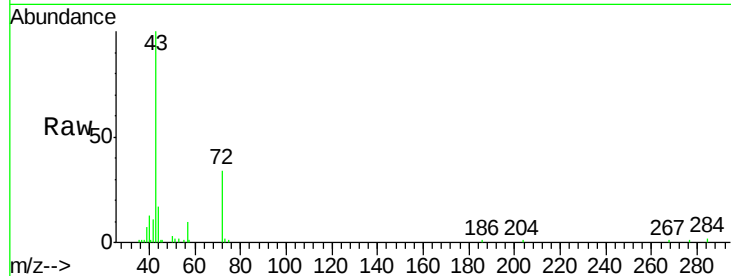
#34
2-Butanone
Concen: 0.17 ppbv
RT: 5.42 min Scan# 1347
Delta R.T. -0.00 min
Lab File: VL032195.D
Acq: 2 Jul 2018 23:47

Instrument :
MSVOA_L
ClientSampleId :
SS-1

Tot Ion	43	Resp	38034
Ion Ratio	100	Lower	Upper
72	25.0	18.4	27.6

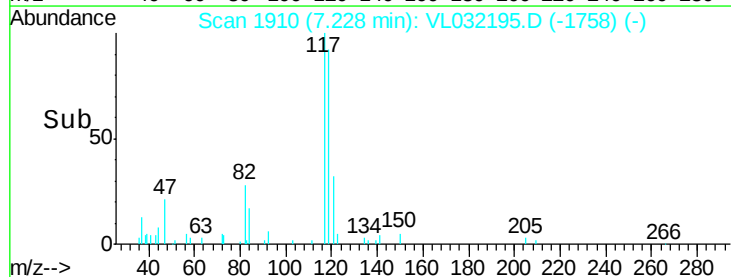
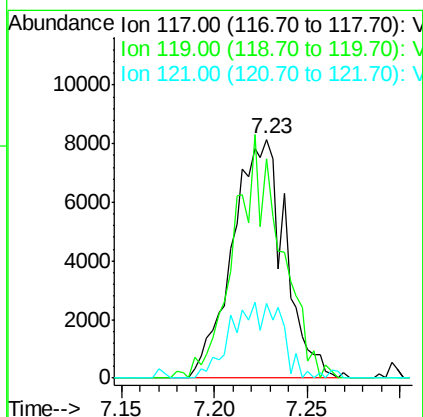
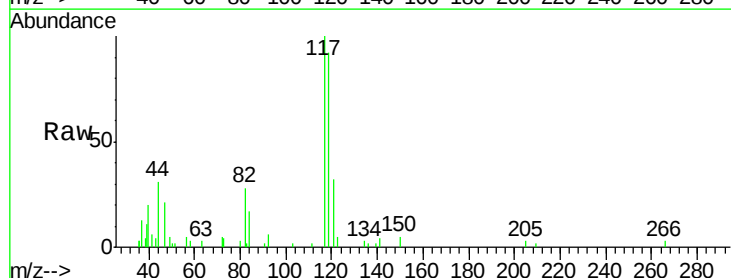
Manual Integrations
APPROVED

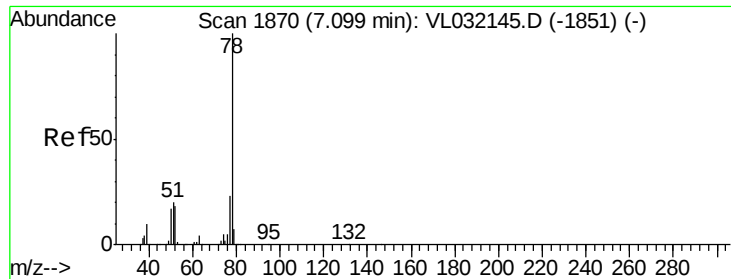
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#35
Carbon Tetrachloride
Concen: 0.06 ppbv
RT: 7.23 min Scan# 1910
Delta R.T. -0.01 min
Lab File: VL032195.D
Acq: 2 Jul 2018 23:47

Tgt Ion	117	Resp	16010
Ion Ratio	100	Lower	Upper
119	92.1	74.8	112.2
121	31.5	24.0	36.0





#36

Benzene

Concen: 0.13 ppbv m

RT: 7.10 min Scan# 1869

Delta R.T. -0.02 min

Lab File: VL032195.D

Acq: 2 Jul 2018 23:47

Instrument :

MSVOA_L

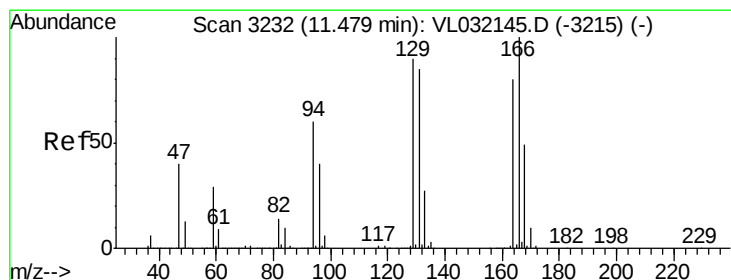
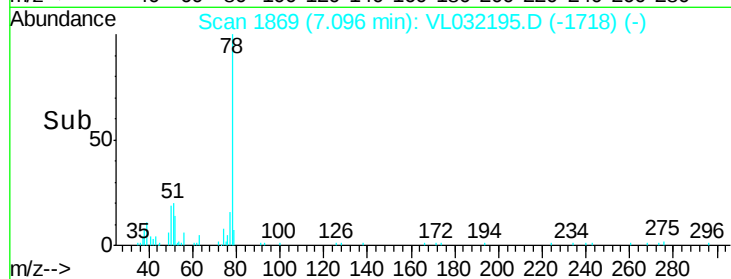
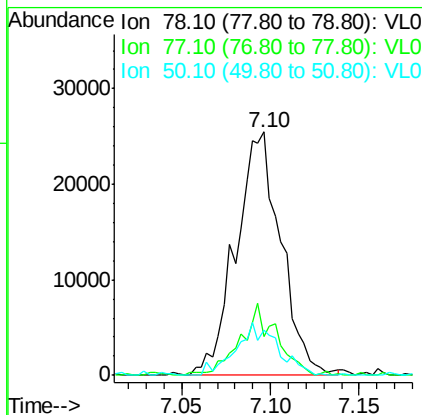
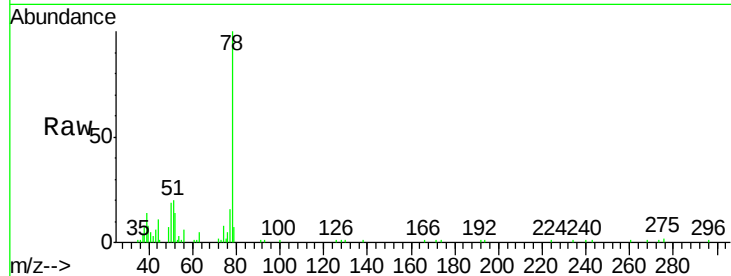
ClientSampleId :

SS-1

Tot Ion:	78	Resp:	45050
Ion Ratio	Lower	Upper	
78	100		
77	16.1	17.7	26.5#
50	18.5	14.0	21.0

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.05 ppbv m

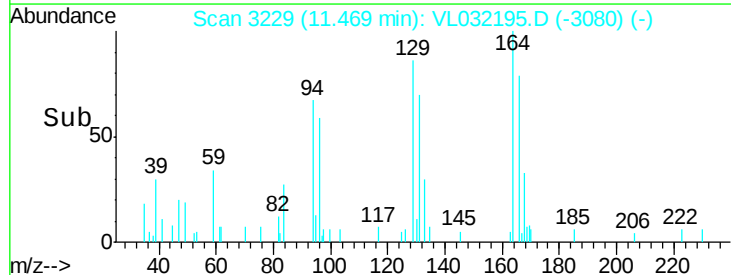
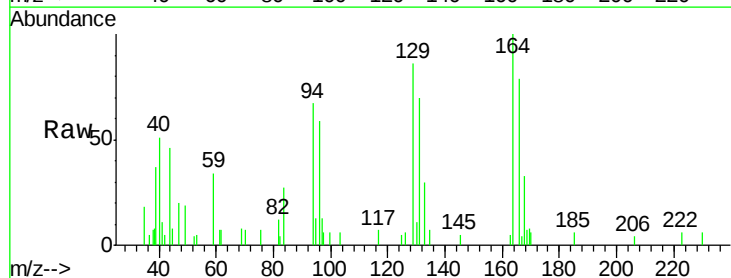
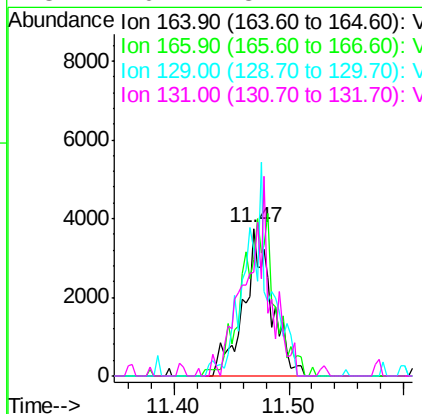
RT: 11.47 min Scan# 3229

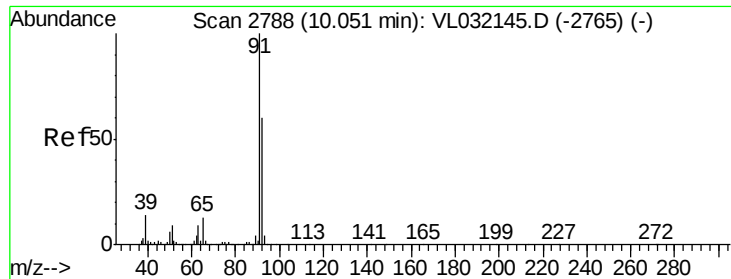
Delta R.T. -0.02 min

Lab File: VL032195.D

Acq: 2 Jul 2018 23:47

Tgt Ion:	164	Resp:	6291
Ion Ratio	Lower	Upper	
164	100		
166	78.8	100.6	151.0#
129	86.0	84.0	126.0
131	70.4	82.7	124.1#





#53

Toluene

Concen: 0.29 ppbv m

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032195.D

Acq: 2 Jul 2018 23:47

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tot Ion: 91 Resp: 123446

Ion Ratio Lower Upper

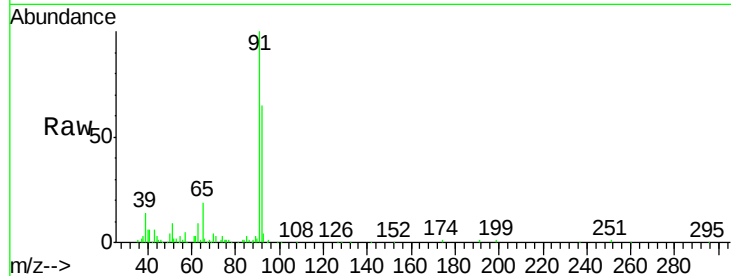
91 100

92 0.0 49.2 73.8#

Manual Integrations
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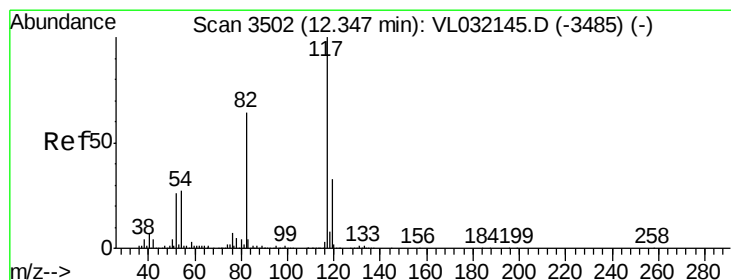
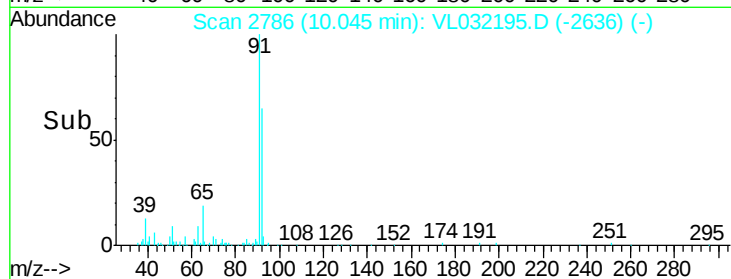
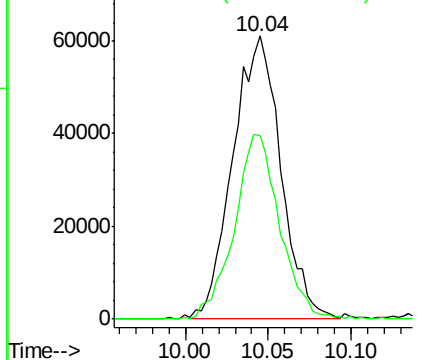
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.34 min Scan# 3499

Delta R.T. -0.02 min

Lab File: VL032195.D

Acq: 2 Jul 2018 23:47

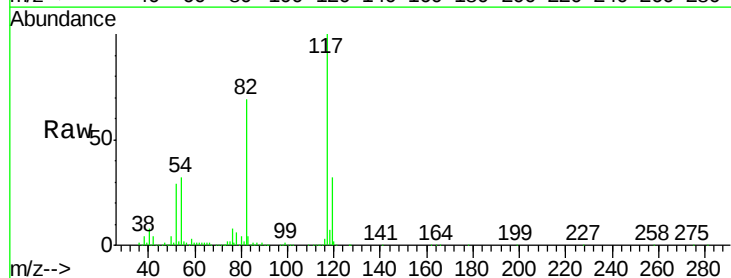
Tgt Ion: 117 Resp: 3124845

Ion Ratio Lower Upper

117 100

82 69.6 47.8 71.8

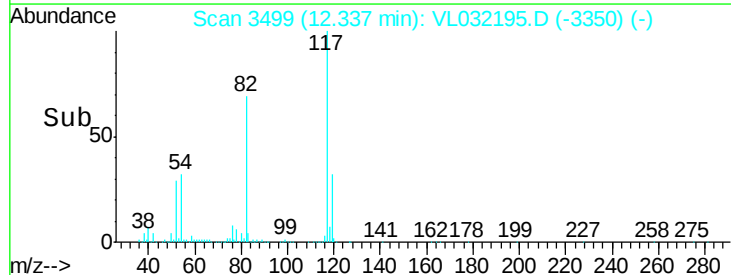
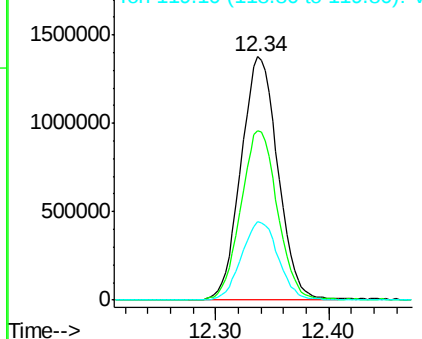
119 32.4 43.3 64.9#

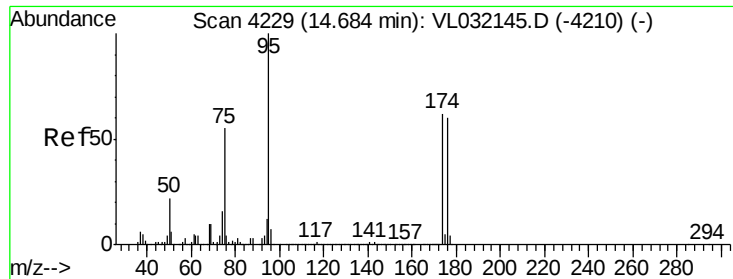


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.82 ppbv
 RT: 14.67 min Scan# 4226
 Delta R.T. -0.02 min
 Lab File: VL032195.D
 Acq: 2 Jul 2018 23:47

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Tot Ion	Ratio	Lower	Upper
95	100		
174	55.5	52.1	78.1
175	4.2	4.0	6.0

Manual Integrations
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