

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070218\
 Data File : VL032197.D
 Acq On : 3 Jul 2018 1:06
 Operator : SY/AP
 Sample : J3735-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3

Manual Integrations
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MMDadoda
 7/3/2018 5:17:23 PM

Quant Time: Jul 03 15:27:53 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	5.85	49	1357161	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.39	114	3671408	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.34	117	3207291	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.68	95	2466109	10.06	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	64292	0.36	ppbv	90
4) Chloromethane	3.23	50	10350	0.12	ppbv #	79
9) Propene	3.10	41	938253	12.14	ppbv #	83
10) Heptane	8.34	43	1495507	6.64	ppbv	95
11) Trichlorofluoromethane	4.07	101	2087876	10.80	ppbv	99
13) Ethanol	3.72	45	632532	27.00	ppbv	98
15) Acetone	3.96	43	3371520	21.25	ppbv	90
17) tert-Butyl alcohol	4.43	59	232897	2.30	ppbv	96
19) Isopropyl Alcohol	4.10	45	116274m	0.88	ppbv	
20) Methylene Chloride	4.49	84	58494	1.01	ppbv #	86
26) Hexane	5.86	57	2628326	17.38	ppbv #	44
27) Carbon Disulfide	4.70	76	153686	1.02	ppbv	97
29) Chloroform	5.94	83	21499	0.10	ppbv	90
32) 1,1,1-Trichloroethane	6.71	97	342352	1.48	ppbv	97
34) 2-Butanone	5.41	43	903905	3.88	ppbv	98
36) Benzene	7.10	78	559260	1.57	ppbv	99
38) Trichloroethene	8.06	130	7374m	0.05	ppbv	
44) 2,2,4-Trimethylpentane	8.09	57	153766	0.25	ppbv #	40
50) 4-Methyl-2-Pentanone	8.98	43	65632	0.17	ppbv	97
52) Tetrachloroethene	11.48	164	728668	5.64	ppbv	94
53) Toluene	10.04	91	1505466	3.51	ppbv	98
58) Ethyl Benzene	12.96	91	402503	0.78	ppbv #	86
59) m/p-Xylene	13.22	91	1240713	2.99	ppbv	95
60) o-Xylene	13.95	91	607853	1.47	ppbv	94
61) Styrene	13.79	104	44548	0.13	ppbv #	84
72) 4-Ethyltoluene	16.10	105	284513m	0.53	ppbv	
73) 1,3,5-Trimethylbenzene	16.26	105	434498	0.86	ppbv	94
74) 1,2,4-Trimethylbenzene	17.02	105	1442184	2.84	ppbv #	75
79) Naphthalene	22.53	128	376232	0.82	ppbv	97
80) Naphthalene,2-methyl-	25.19	142	146965	0.88	ppbv #	89

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

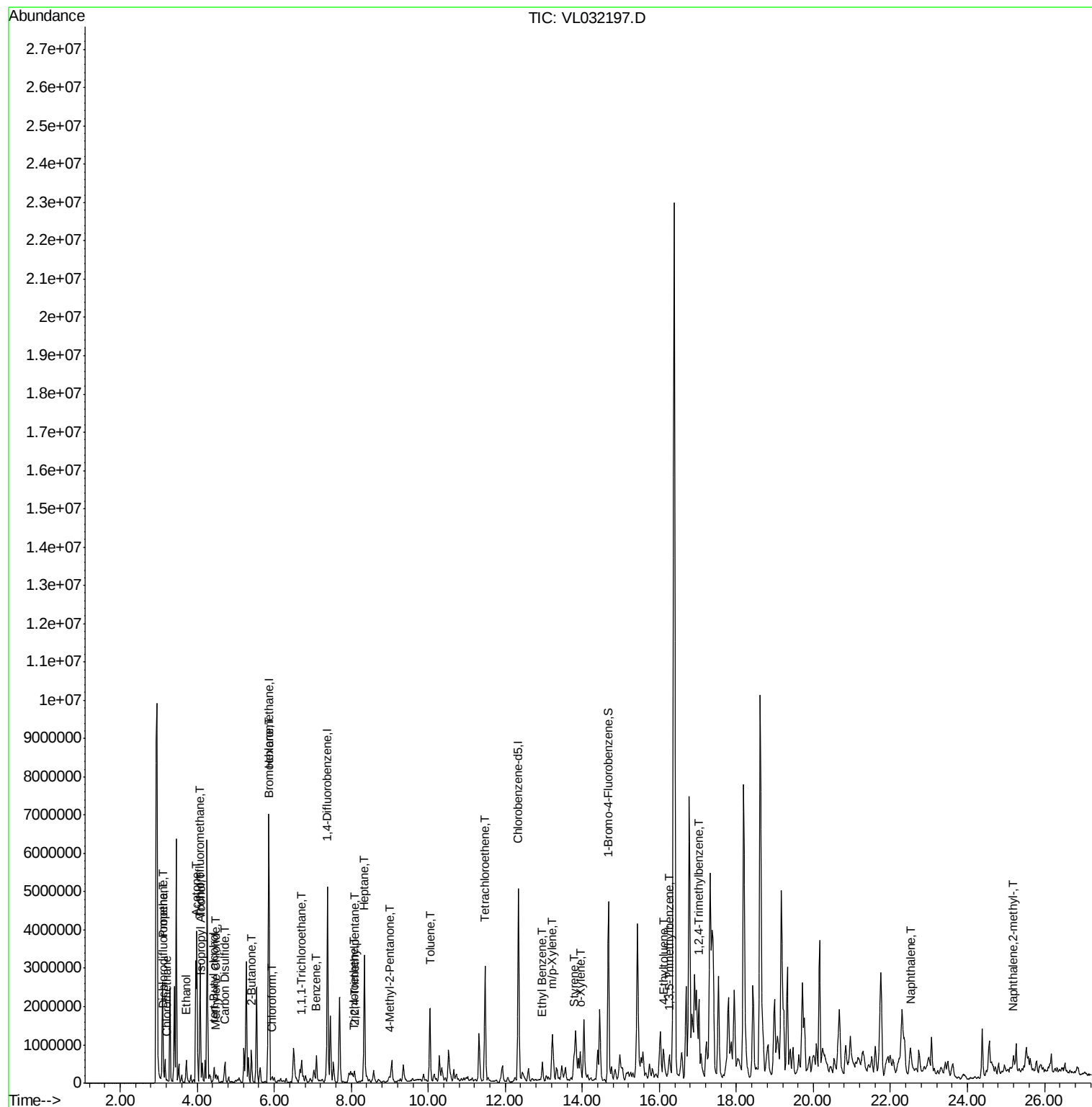
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL070218\
Data File : VL032197.D
Acq On : 3 Jul 2018 1:06
Operator : SY/AP
Sample : J3735-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

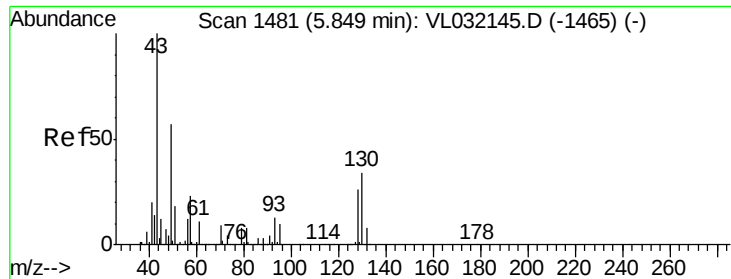
Instrument :
MSVOA_L
ClientSampleId :
SS-3

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7/3/2018 5:17:23 PM

Quant Time: Jul 03 15:27:53 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

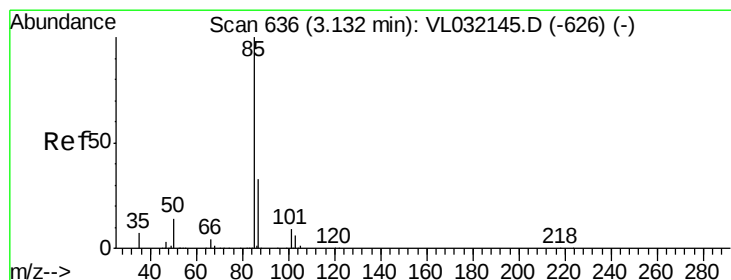
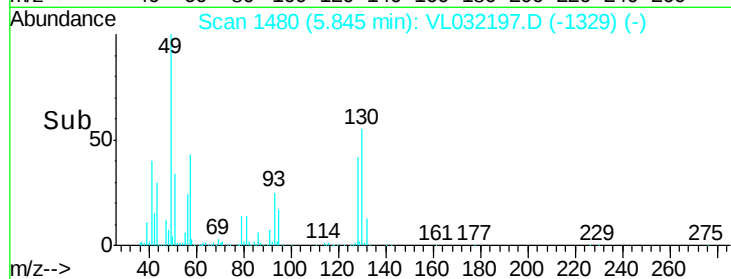
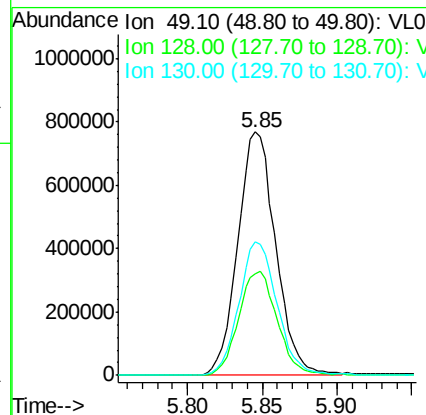
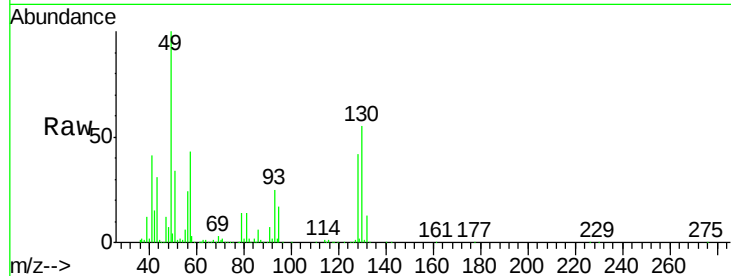
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.85 min Scan# 1480
 Delta R.T. -0.02 min
 Lab File: VL032197.D
 Acq: 3 Jul 2018 1:06

Instrument :
 MSVOA_L
 ClientSampled :
 SS-3

Tot Ion: 49 Resp: 1357161
 Ion Ratio Lower Upper
 49 100
 128 43.8 23.4 70.0
 130 55.7 30.3 90.9

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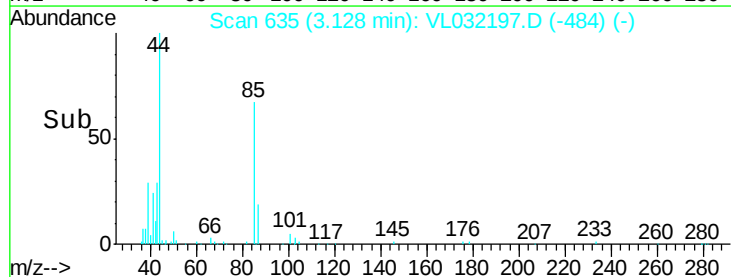
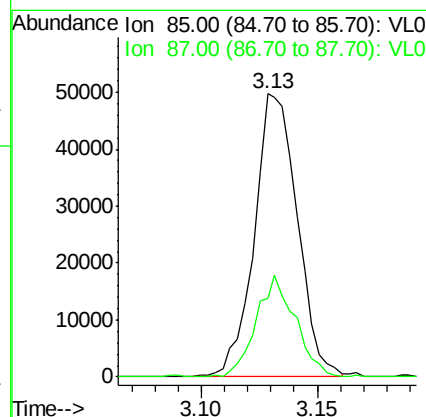
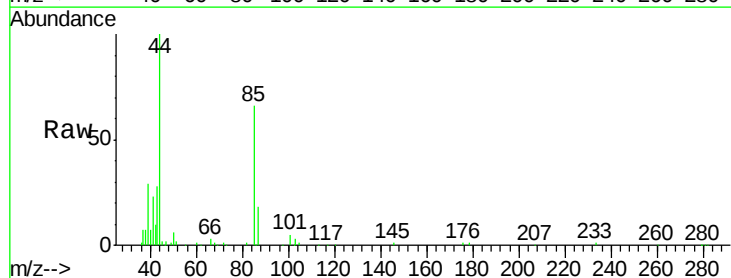
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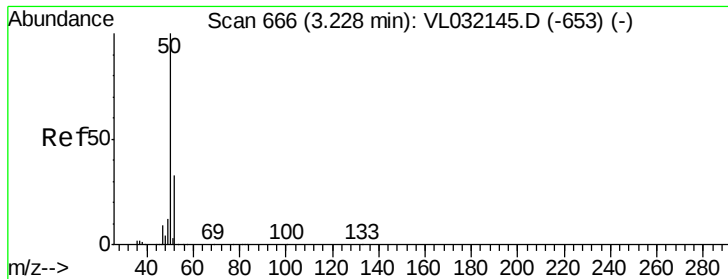


#2

Dichlorodifluoromethane
 Concen: 0.36 ppbv
 RT: 3.13 min Scan# 635
 Delta R.T. -0.01 min
 Lab File: VL032197.D
 Acq: 3 Jul 2018 1:06

Tgt Ion: 85 Resp: 64292
 Ion Ratio Lower Upper
 85 100
 87 27.9 26.7 40.1





#4

Chloromethane

Concen: 0.12 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

Instrument :

MSVOA_L

ClientSampleId :

SS-3

Tot Ion: 50 Resp: 10350

Ion Ratio Lower Upper

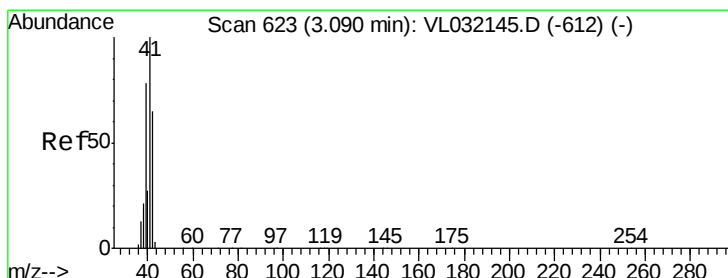
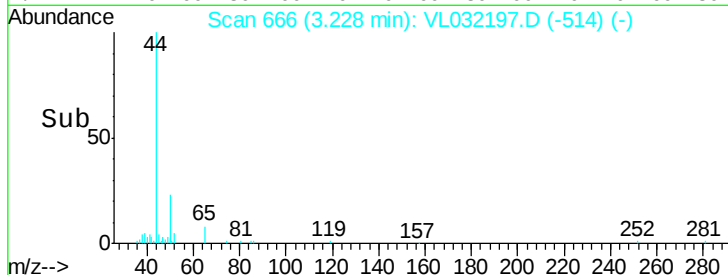
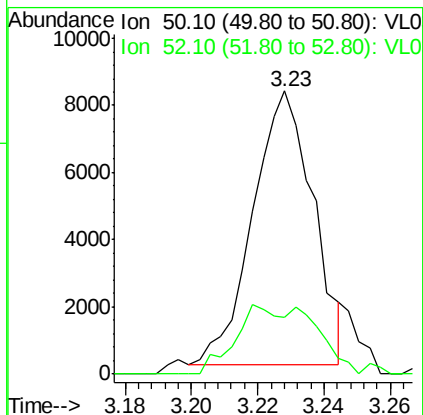
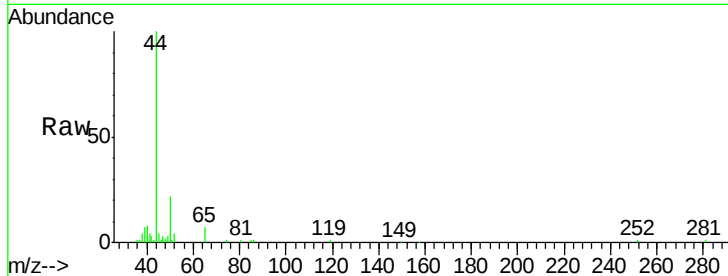
50 100

52 20.8 26.0 39.0#

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#9

Propene

Concen: 12.14 ppbv

RT: 3.10 min Scan# 625

Delta R.T. -0.00 min

Lab File: VL032197.D

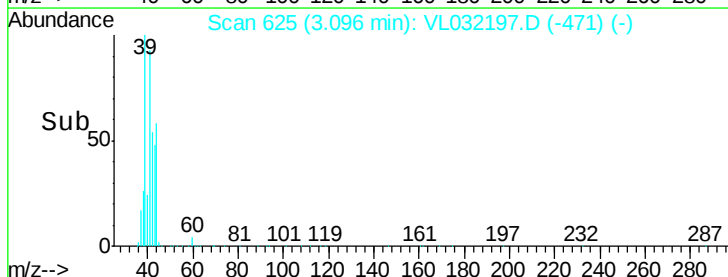
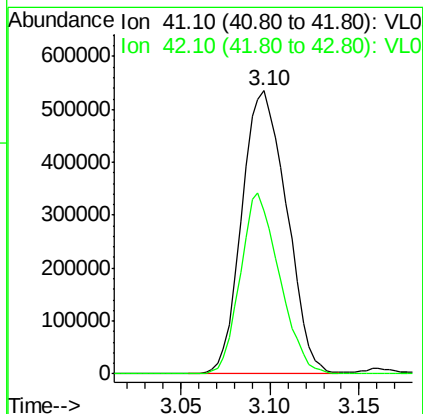
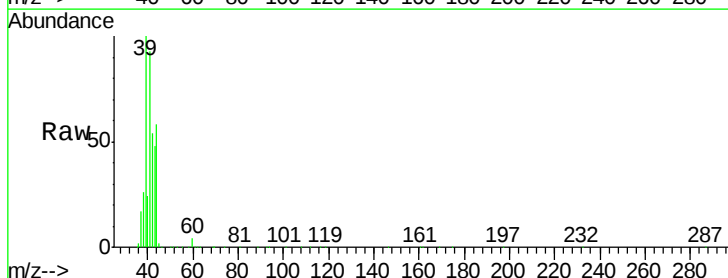
Acq: 3 Jul 2018 1:06

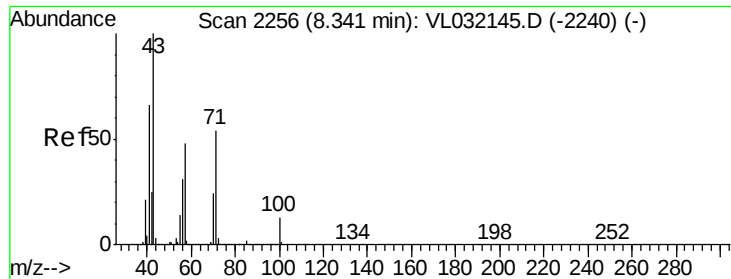
Tgt Ion: 41 Resp: 938253

Ion Ratio Lower Upper

41 100

42 56.1 56.2 84.4#





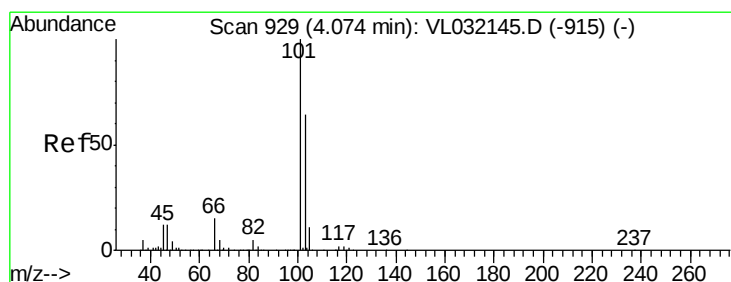
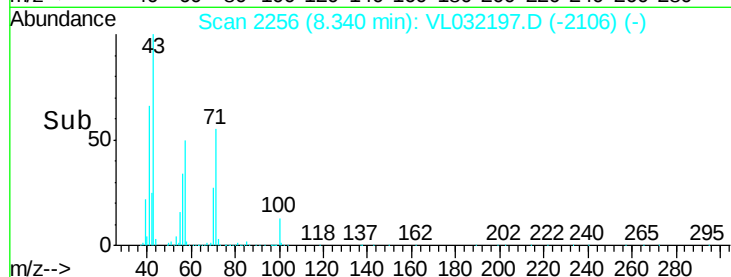
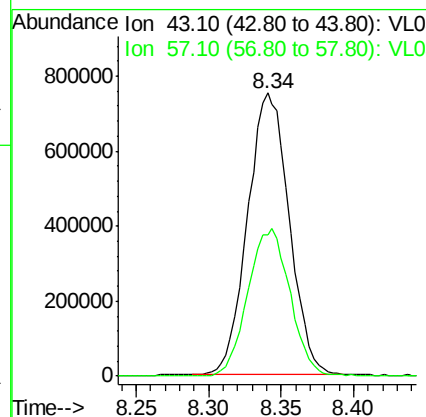
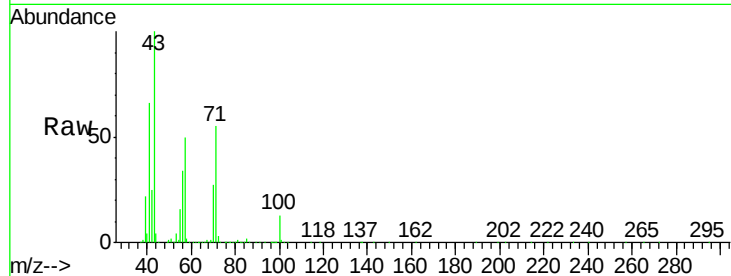
#10
Heptane
Concen: 6.64 ppbv
RT: 8.34 min Scan# 2256
Delta R.T. -0.02 min
Lab File: VL032197.D
Acq: 3 Jul 2018 1:06

Instrument :
MSVOA_L
ClientSampleId :
SS-3

Tot Ion: 43 Resp: 1495507
Ion Ratio Lower Upper
43 100
57 53.3 39.8 59.8

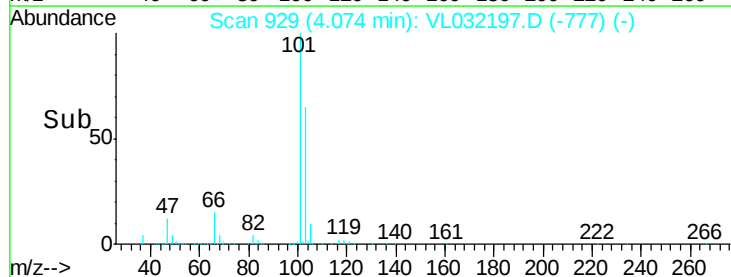
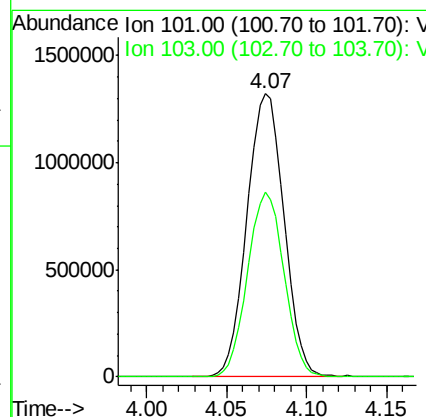
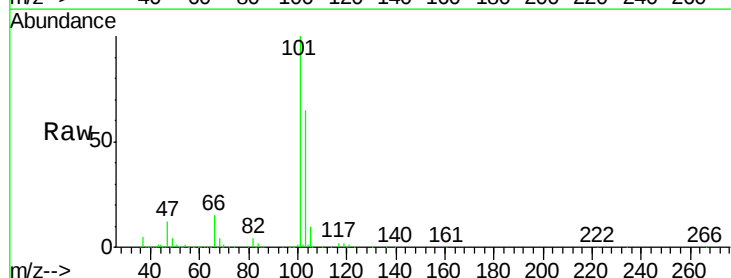
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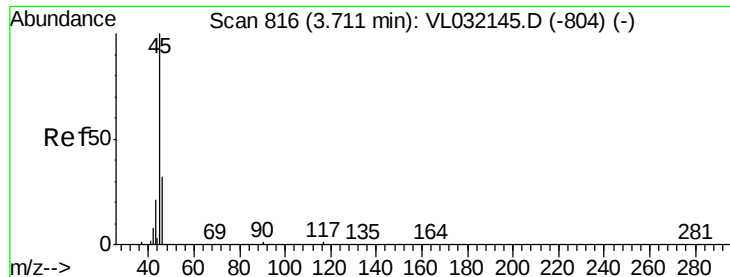
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#11
Trichlorofluoromethane
Concen: 10.80 ppbv
RT: 4.07 min Scan# 929
Delta R.T. -0.01 min
Lab File: VL032197.D
Acq: 3 Jul 2018 1:06

Tgt Ion: 101 Resp: 2087876
Ion Ratio Lower Upper
101 100
103 65.3 51.4 77.0





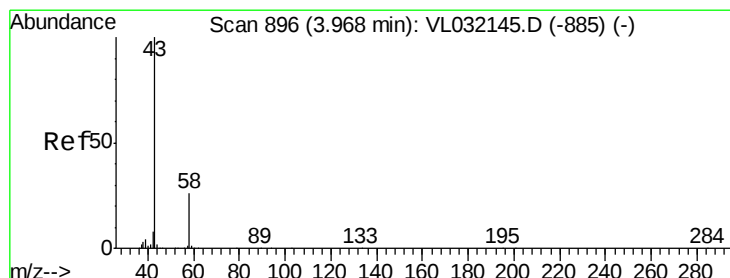
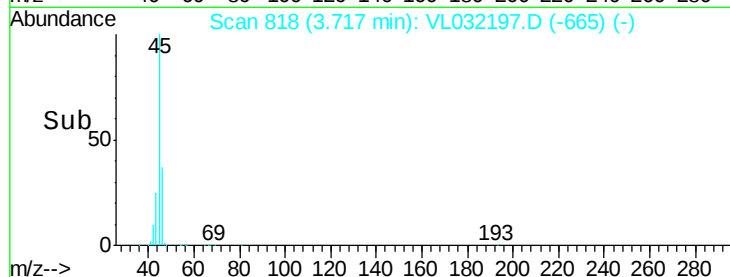
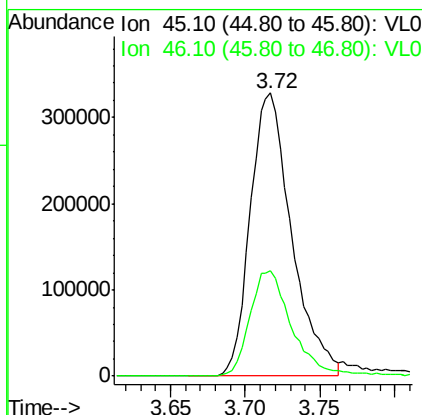
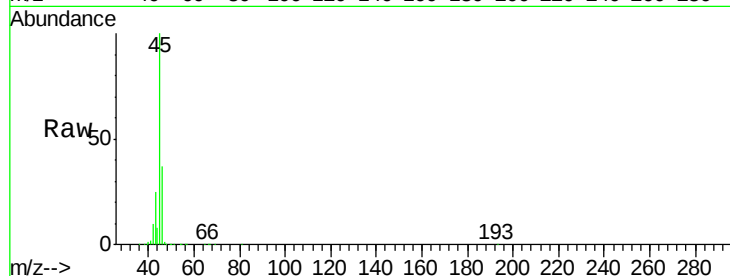
#13
Ethanol
Concen: 27.00 ppbv
RT: 3.72 min Scan# 818
Delta R.T. -0.01 min
Lab File: VL032197.D
Acq: 3 Jul 2018 1:06

Instrument :
MSVOA_L
ClientSampleId :
SS-3

Tot Ion: 45 Resp: 632532
Ion Ratio Lower Upper
45 100
46 37.7 14.6 58.4

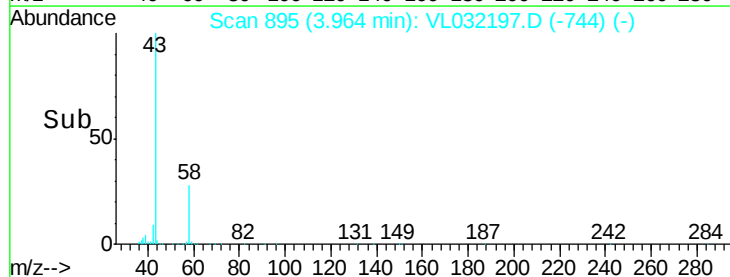
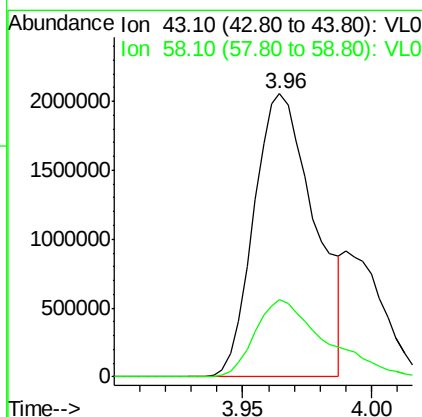
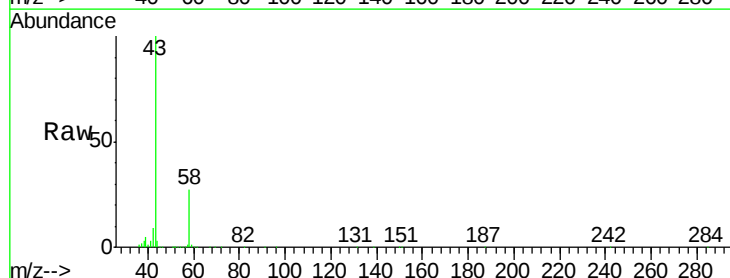
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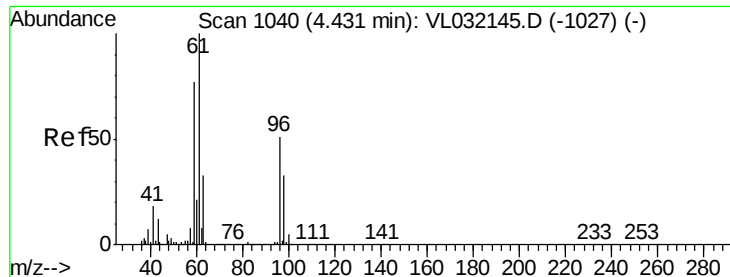
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#15
Acetone
Concen: 21.25 ppbv
RT: 3.96 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL032197.D
Acq: 3 Jul 2018 1:06

Tgt Ion: 43 Resp: 3371520
Ion Ratio Lower Upper
43 100
58 31.8 21.4 32.0





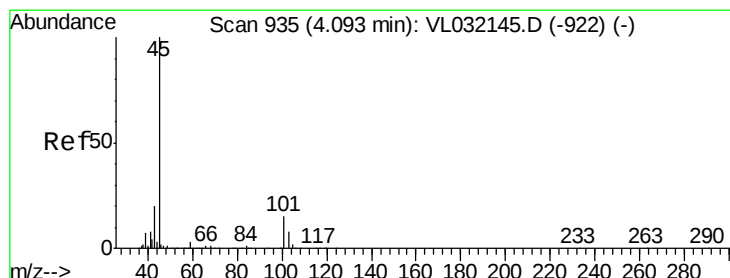
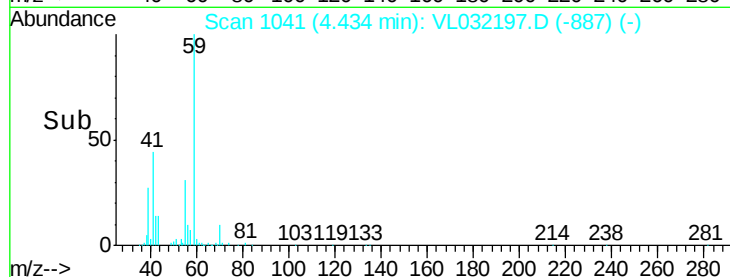
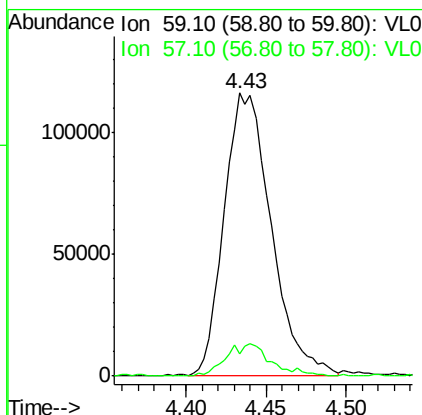
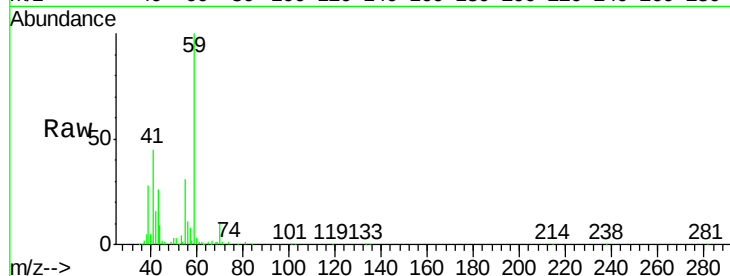
#17
 tert-Butyl alcohol
 Concen: 2.30 ppbv
 RT: 4.43 min Scan# 1041
 Delta R.T. -0.00 min
 Lab File: VL032197.D
 Acq: 3 Jul 2018 1:06

Instrument :
 MSVOA_L
 ClientSampled :
 SS-3

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.6	8.2	12.2

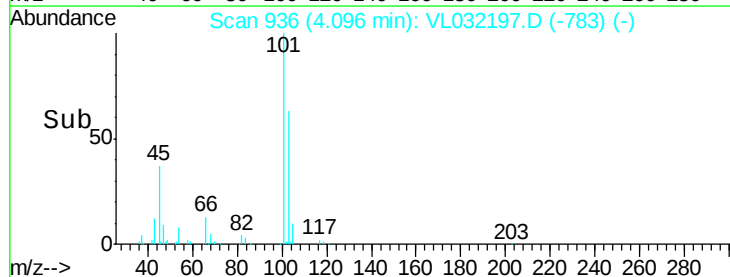
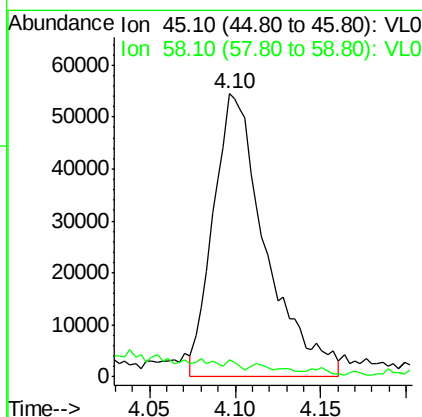
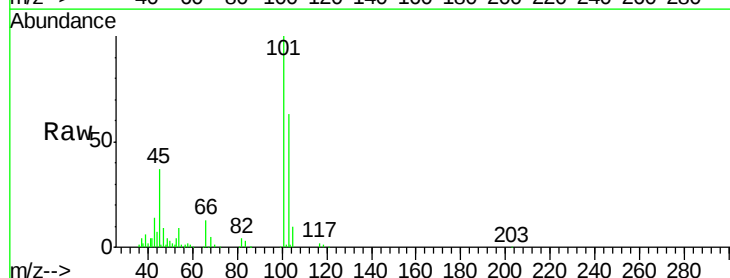
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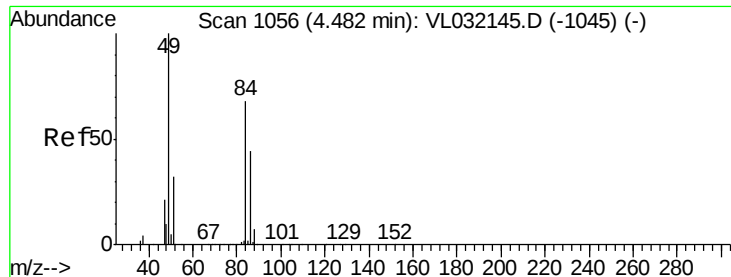
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#19
 Isopropyl Alcohol
 Concen: 0.88 ppbv m
 RT: 4.10 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VL032197.D
 Acq: 3 Jul 2018 1:06

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	29.4	44.0#





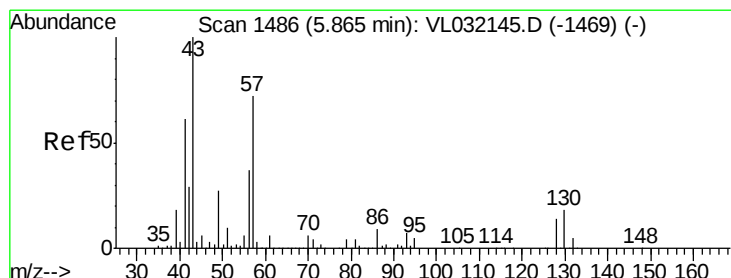
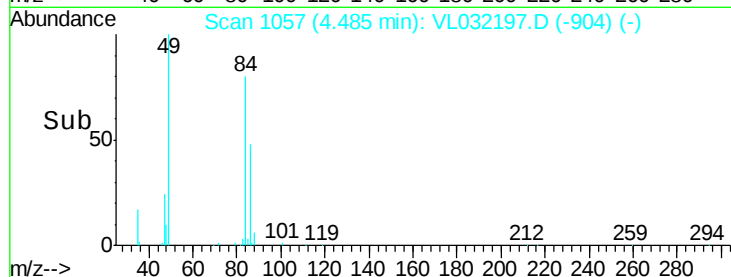
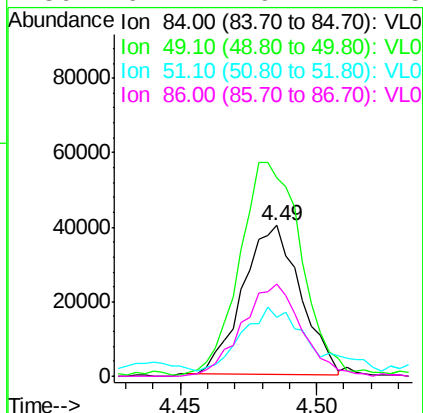
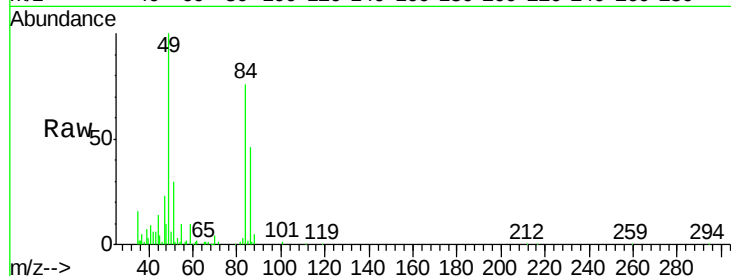
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Methvlene Chloride
Concen: 1.01 ppbv
RT: 4.49 min Scan# 1057
Delta R.T. -0.01 min
Lab File: VL032197.D
Acq: 3 Jul 2018 1:06

Instrument :
MSVOA_L
ClientSampleId :
SS-3

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	126.5	119.6	179.4	
51	34.4	36.3	54.5#	
86	61.1	49.7	74.5	

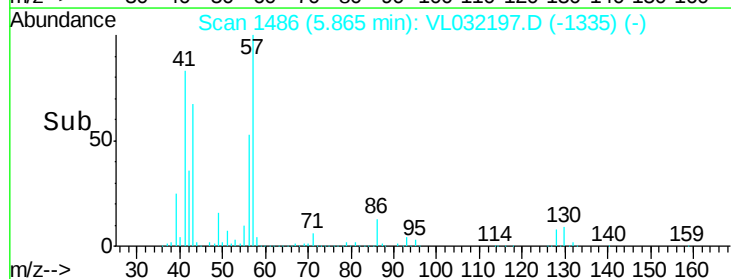
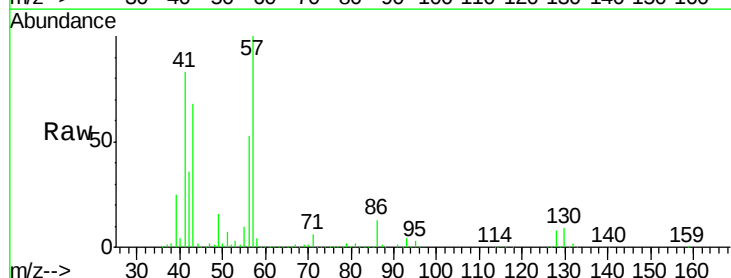
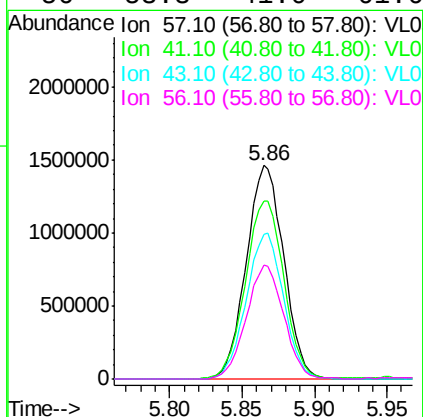
Manual Integrations
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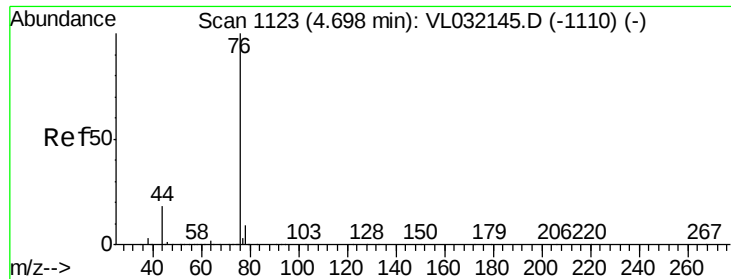
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#26
Hexane
Concen: 17.38 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032197.D
Acq: 3 Jul 2018 1:06

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	85.9	68.6	103.0	
43	68.2	168.6	252.8#	
56	53.3	41.0	61.6	





#27

Carbon Disulfide

Concen: 1.02 ppbv

RT: 4.70 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

Instrument :

MSVOA_L

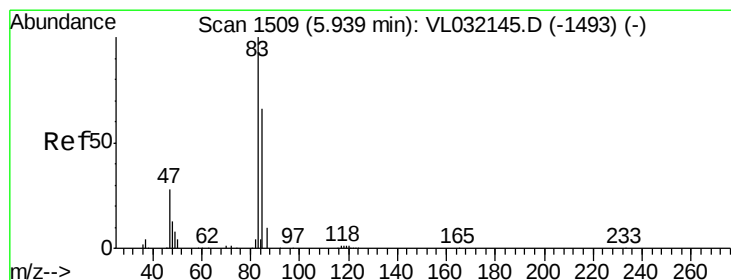
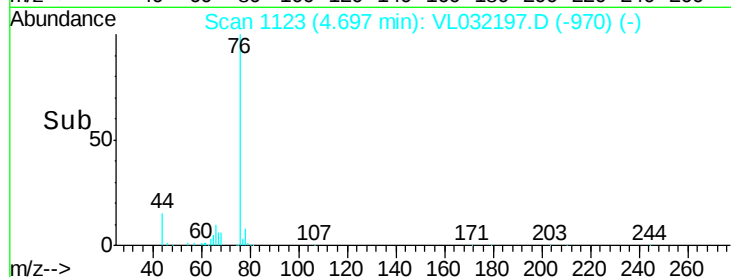
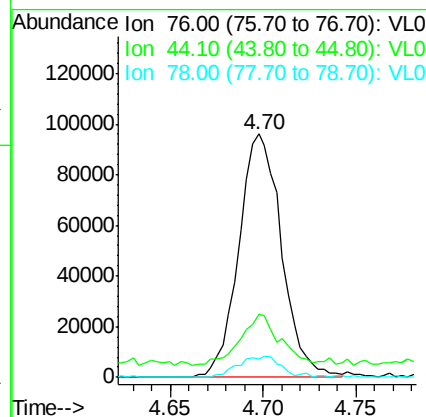
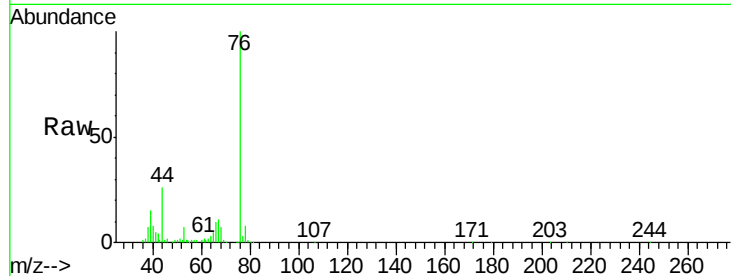
ClientSampleId :

SS-3

Tot Ion:	76	Resp:	153686
Ion	Ratio	Lower	Upper
76	100		
44	20.6	15.1	22.7
78	9.5	7.2	10.8

Manual Integrations
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#29

Chloroform

Concen: 0.10 ppbv

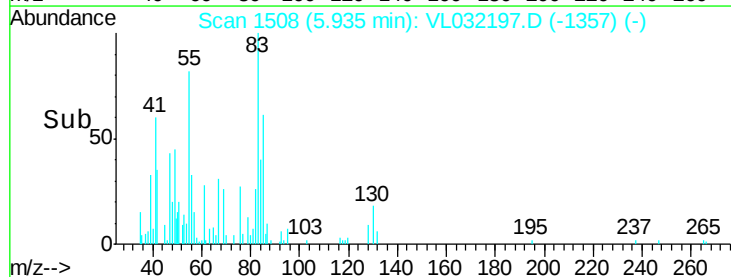
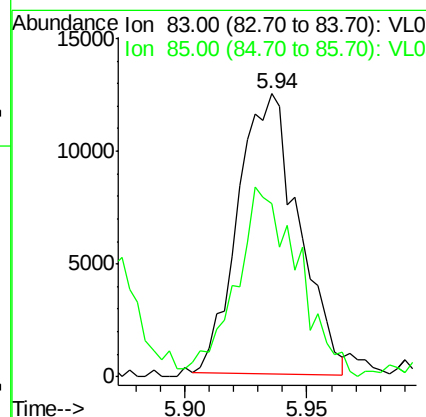
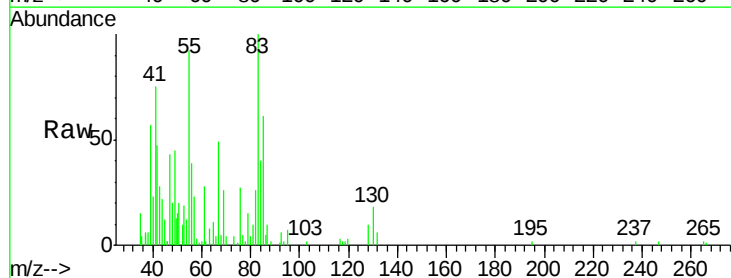
RT: 5.94 min Scan# 1508

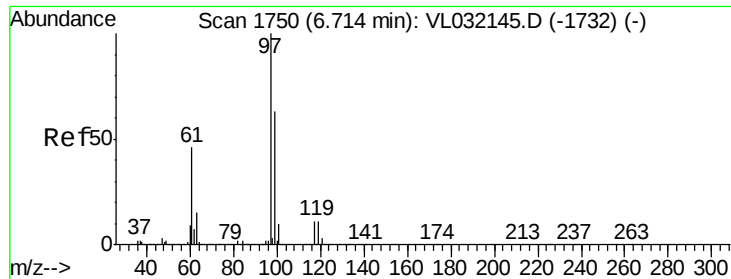
Delta R.T. -0.01 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

Tgt Ion:	83	Resp:	21499
Ion	Ratio	Lower	Upper
83	100		
85	56.7	51.6	77.4





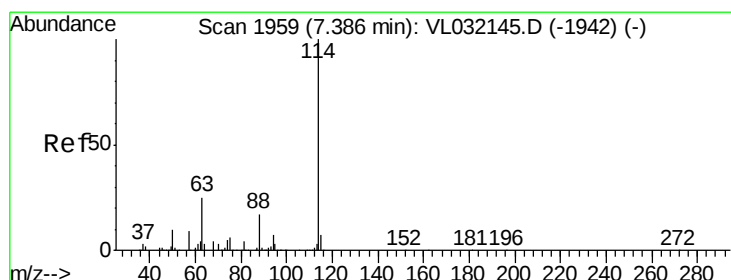
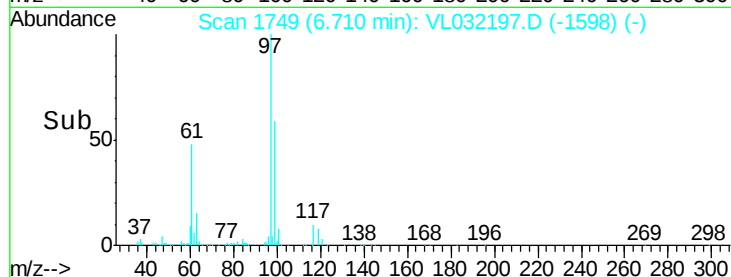
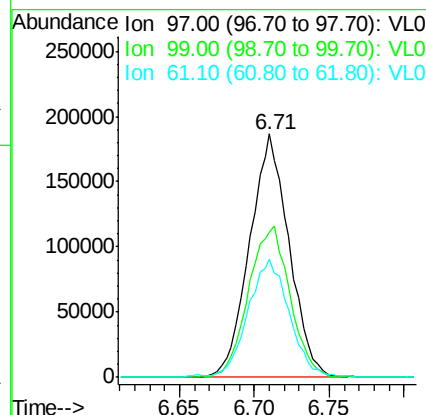
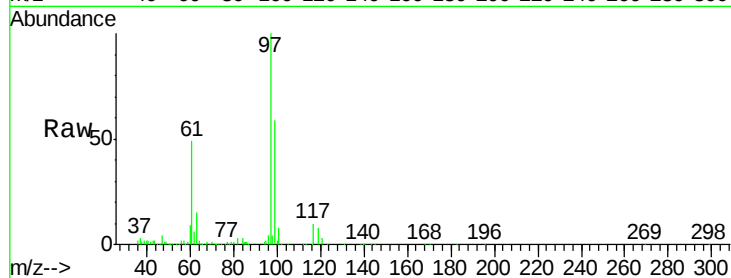
#32
 1,1,1-Trichloroethane
 Concen: 1.48 ppbv
 RT: 6.71 min Scan# 1749
 Delta R.T. -0.01 min
 Lab File: VL032197.D
 Acq: 3 Jul 2018 1:06

Instrument :
 MSVOA_L
 ClientSampled :
 SS-3

Tot Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.3	76.9
61	51.4	38.4	57.6

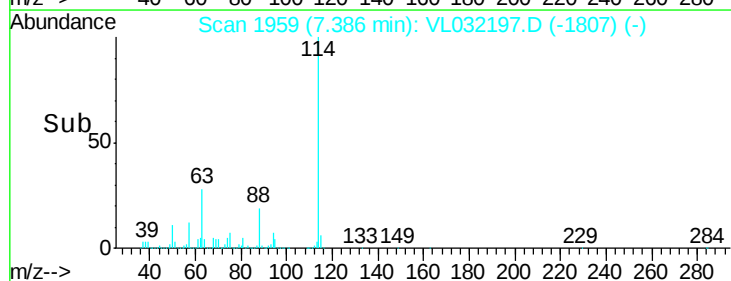
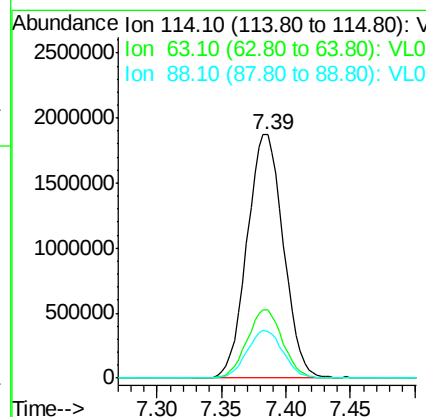
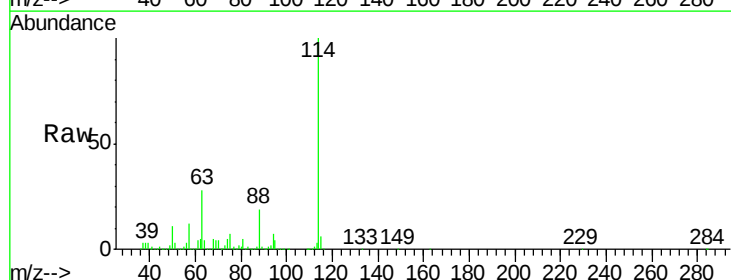
Manual Integrations
 APPROVED

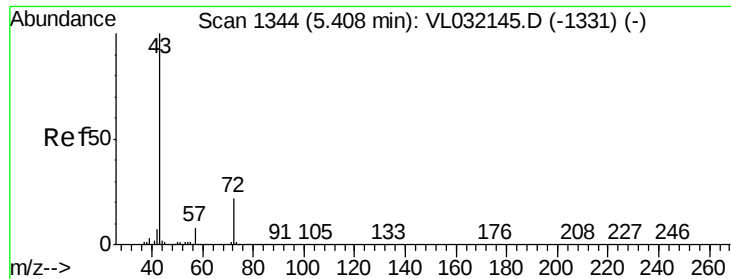
MMDadoda
 7/3/2018 5:17:23 PM



#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.39 min Scan# 1959
 Delta R.T. -0.01 min
 Lab File: VL032197.D
 Acq: 3 Jul 2018 1:06

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.7	19.1	28.7
88	19.3	13.9	20.9





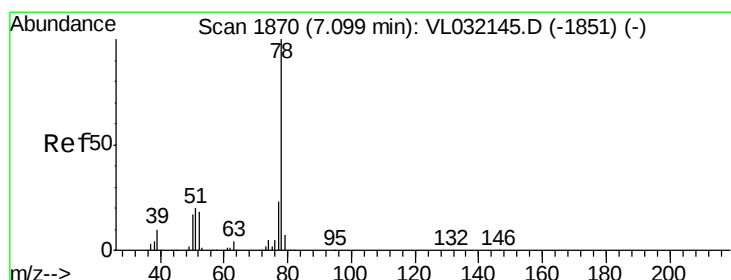
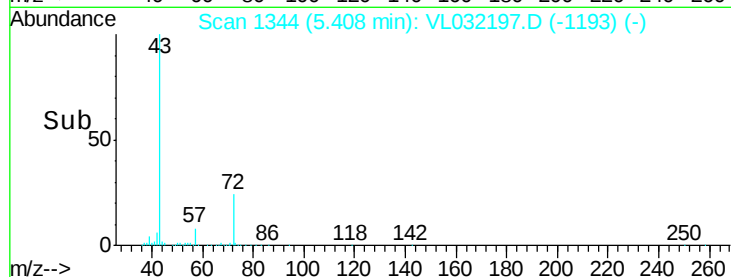
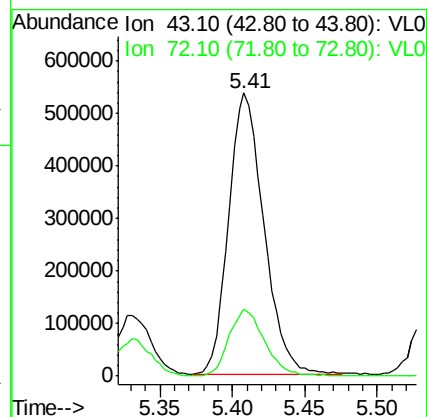
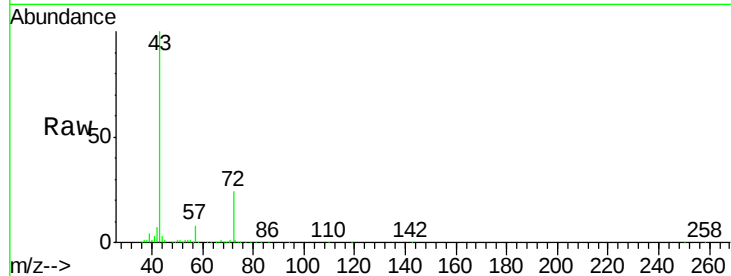
#34
2-Butanone
Concen: 3.88 ppbv
RT: 5.41 min Scan# 1344
Delta R.T. -0.01 min
Lab File: VL032197.D
Acq: 3 Jul 2018 1:06

Instrument :
MSVOA_L
ClientSampleId :
SS-3

Tot Ion: 43 Resp: 903905
Ion Ratio Lower Upper
43 100
72 24.0 18.4 27.6

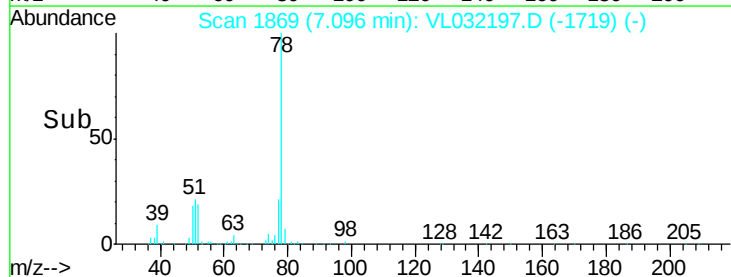
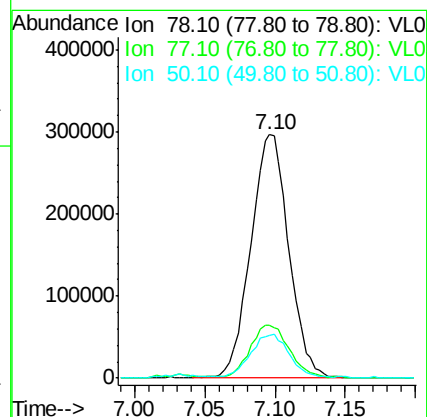
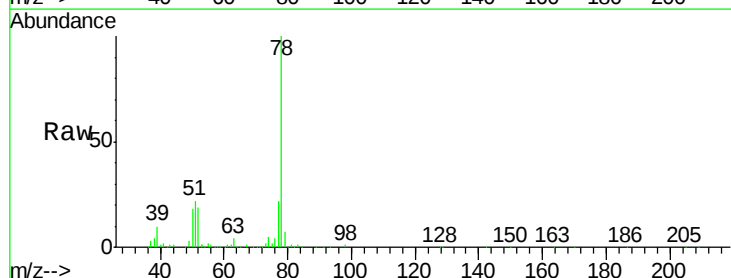
Manual Integrations
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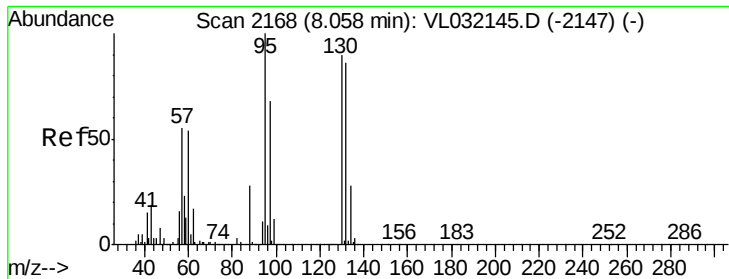
MMDadoda
7/3/2018 5:17:23 PM



#36
Benzene
Concen: 1.57 ppbv
RT: 7.10 min Scan# 1869
Delta R.T. -0.02 min
Lab File: VL032197.D
Acq: 3 Jul 2018 1:06

Tgt Ion: 78 Resp: 559260
Ion Ratio Lower Upper
78 100
77 21.2 17.7 26.5
50 17.2 14.0 21.0





#38

Trichloroethene

Concen: 0.05 ppbv m

RT: 8.06 min Scan# 2169

Delta R.T. -0.01 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

Instrument :

MSVOA_L

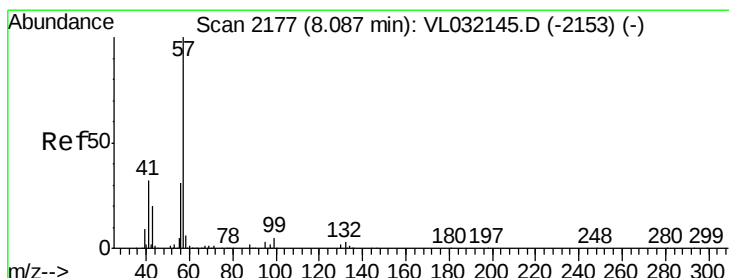
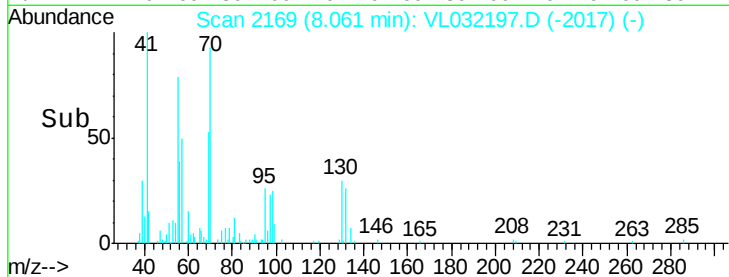
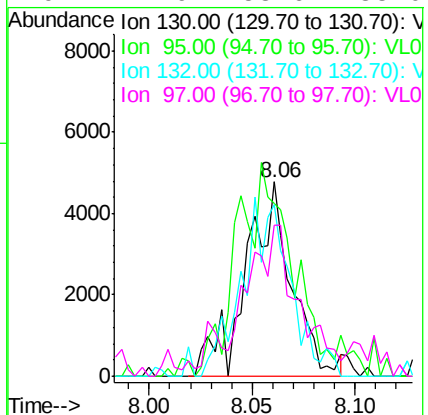
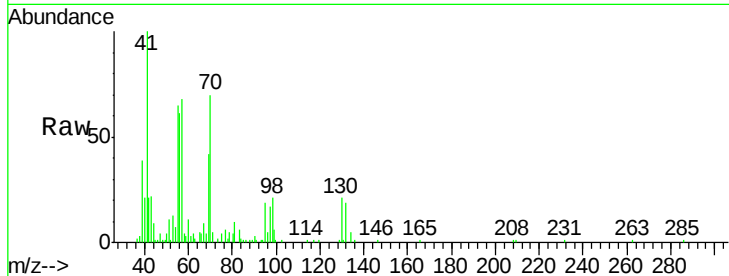
ClientSampleId :

SS-3

Tot Ion:	130	Resp:	7374
Ion Ratio	Lower	Upper	
130	100		
95	89.0	88.1	132.1
132	88.1	74.6	112.0
97	77.9	58.6	88.0

Manual Integrations
APPROVED

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#44

2,2,4-Trimethylpentane

Concen: 0.25 ppbv

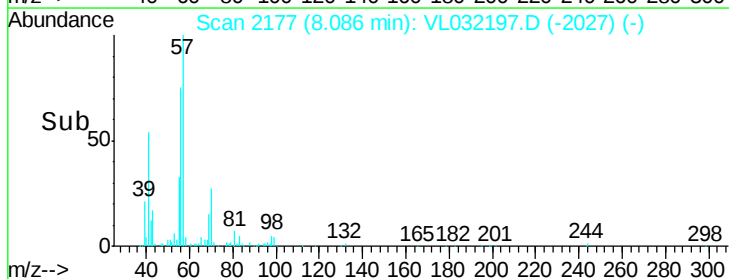
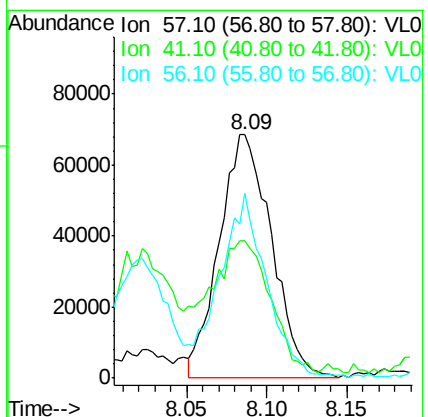
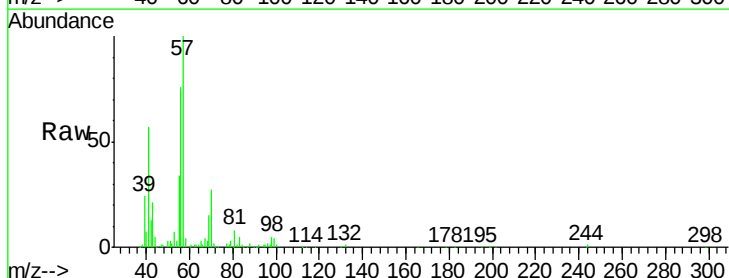
RT: 8.09 min Scan# 2177

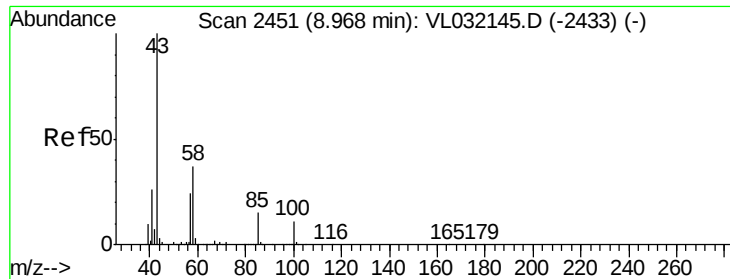
Delta R.T. -0.02 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

Tgt Ion:	57	Resp:	153766
Ion Ratio	Lower	Upper	
57	100		
41	60.5	24.3	36.5#
56	67.1	25.1	37.7#





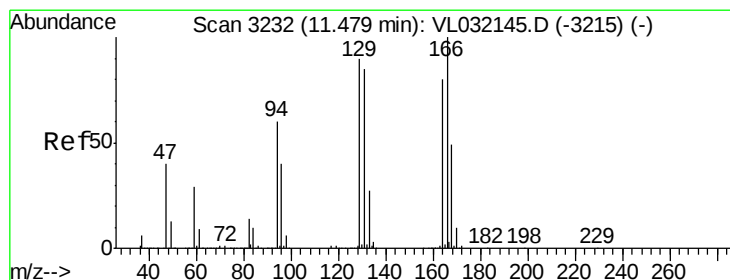
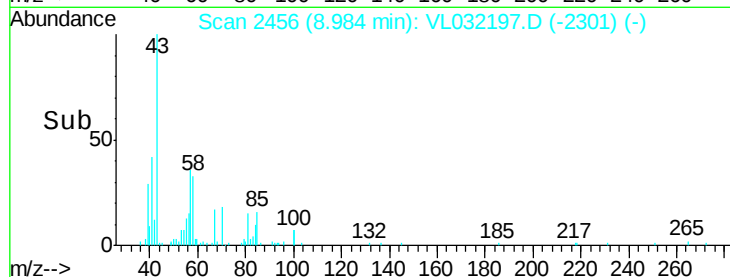
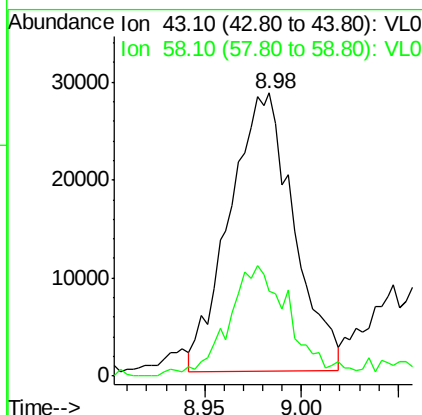
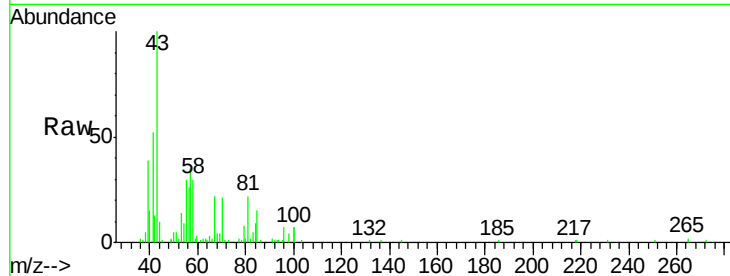
#50
4-Methyl-2-Pentanone
Concen: 0.17 ppbv
RT: 8.98 min Scan# 2456
Delta R.T. -0.00 min
Lab File: VL032197.D
Acq: 3 Jul 2018 1:06

Instrument :
MSVOA_L
ClientSampled :
SS-3

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.0	29.8	44.6

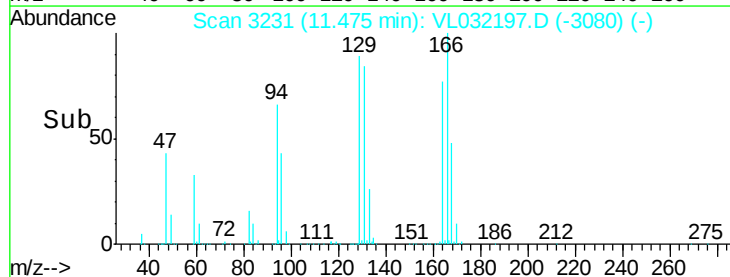
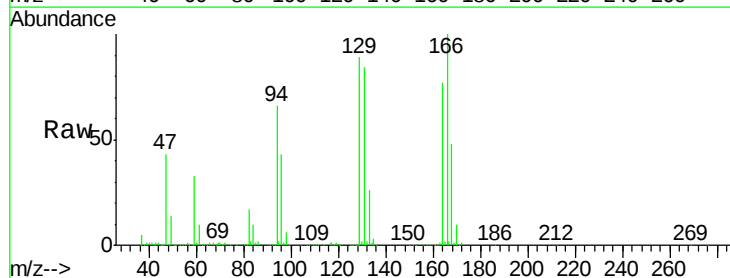
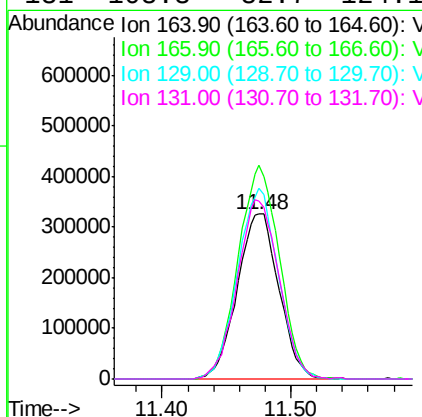
Manual Integrations
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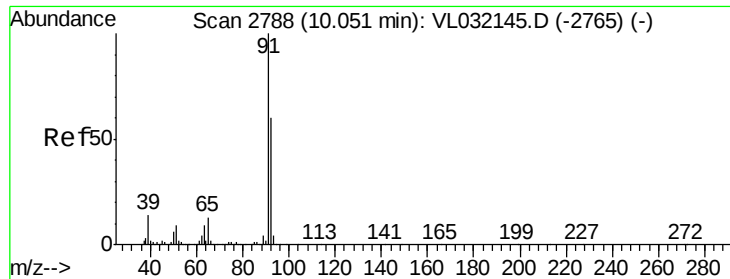
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#52
Tetrachloroethene
Concen: 5.64 ppbv
RT: 11.48 min Scan# 3231
Delta R.T. -0.02 min
Lab File: VL032197.D
Acq: 3 Jul 2018 1:06

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.5	100.6	151.0
129	115.6	84.0	126.0
131	108.3	82.7	124.1





#53

Toluene

Concen: 3.51 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.02 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

Instrument :

MSVOA_L

ClientSampleId :

SS-3

Tot Ion: 91 Resp: 1505466

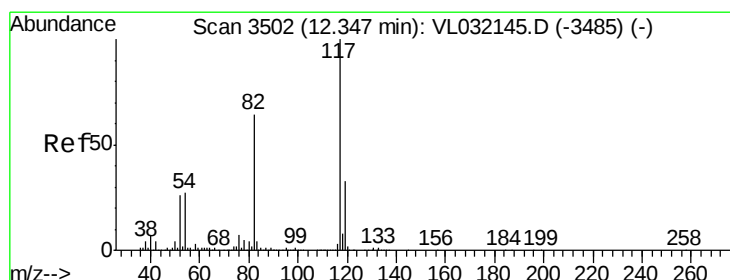
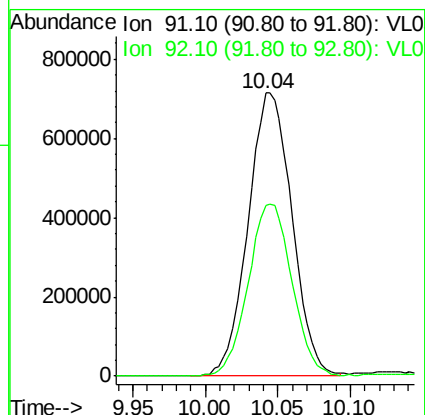
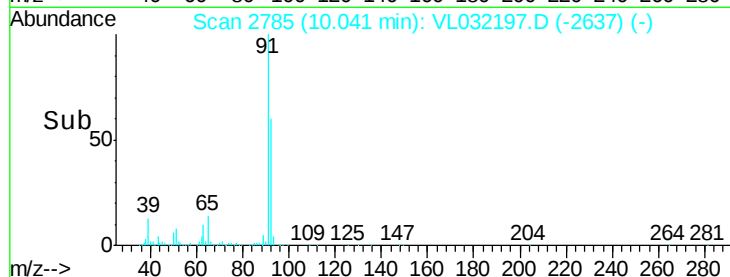
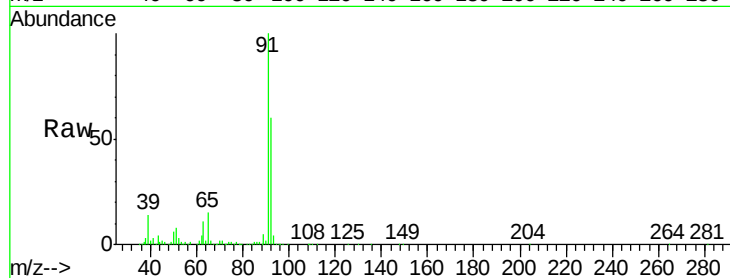
Ion Ratio Lower Upper

91 100

92 60.3 49.2 73.8

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.34 min Scan# 3499

Delta R.T. -0.02 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

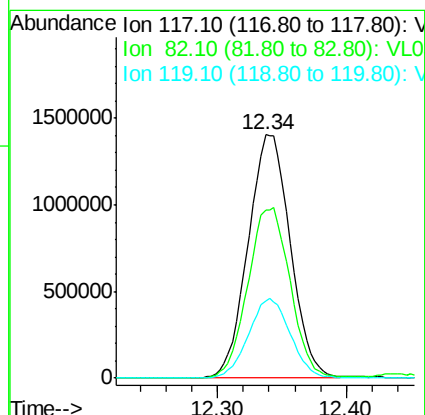
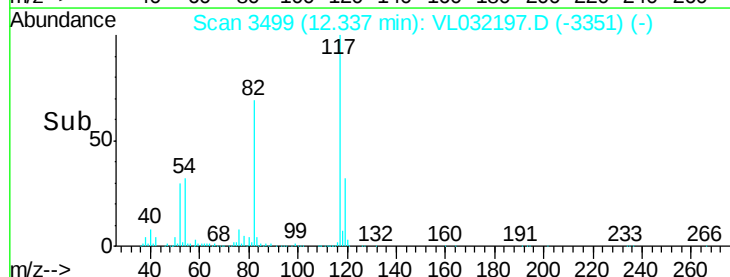
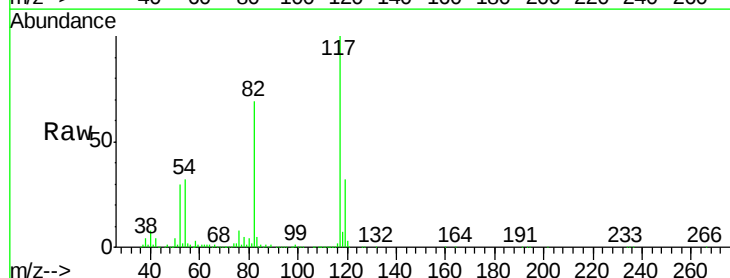
Tgt Ion: 117 Resp: 3207291

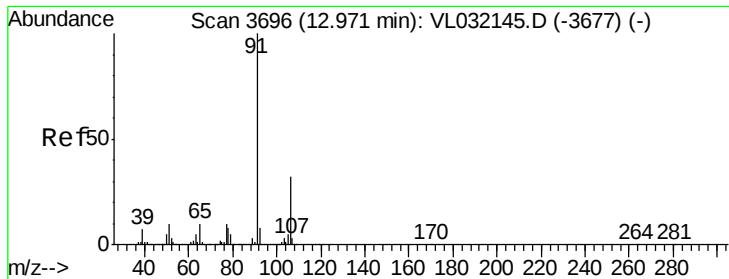
Ion Ratio Lower Upper

117 100

82 70.4 47.8 71.8

119 32.5 43.3 64.9#





#58

Ethyl Benzene

Concen: 0.78 ppbv

RT: 12.96 min Scan# 3693

Delta R.T. -0.02 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

Instrument :

MSVOA_L

ClientSampled :

SS-3

Tot Ion: 91 Resp: 402503

Ion Ratio Lower Upper

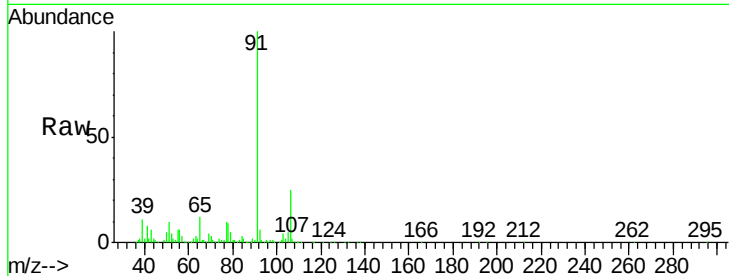
91 100

106 25.2 26.5 39.7#

Manual Integrations
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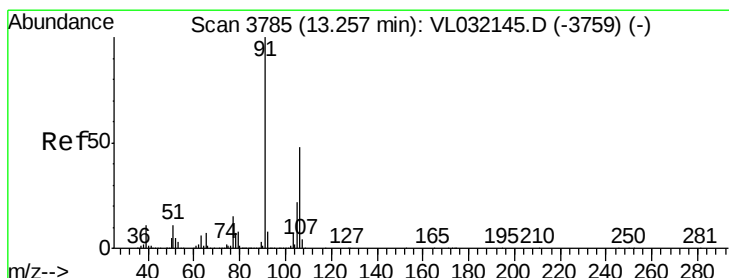
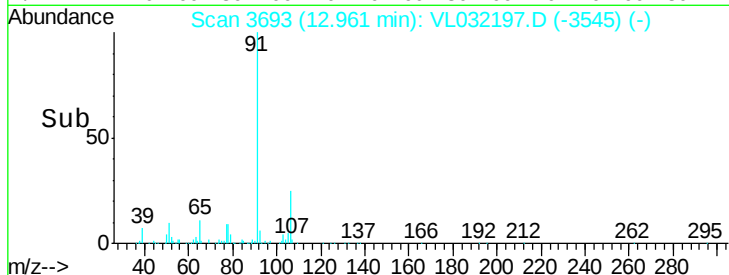
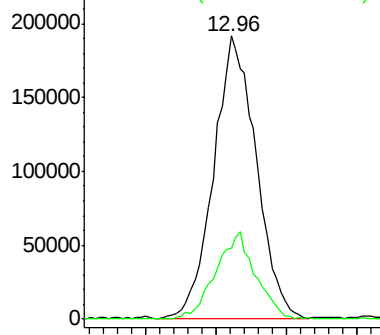
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 2.99 ppbv

RT: 13.22 min Scan# 3774

Delta R.T. -0.05 min

Lab File: VL032197.D

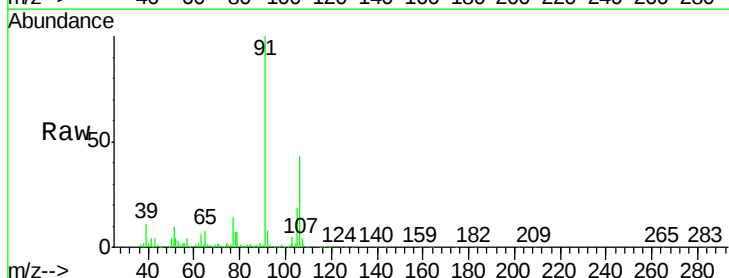
Acq: 3 Jul 2018 1:06

Tgt Ion: 91 Resp: 1240713

Ion Ratio Lower Upper

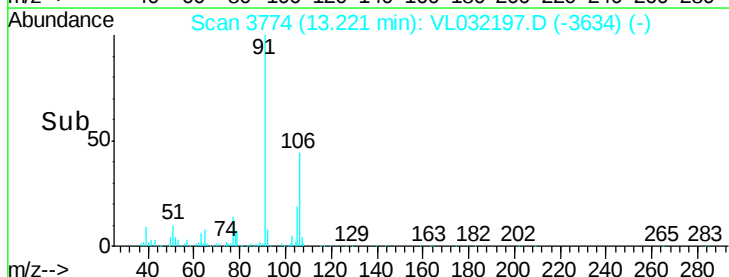
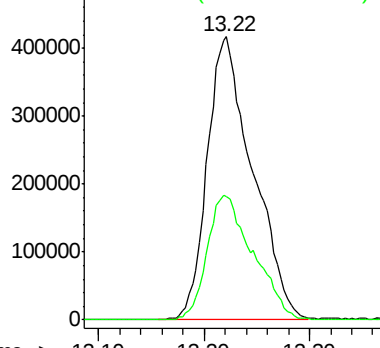
91 100

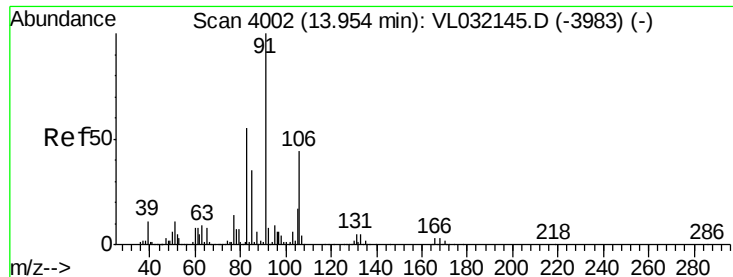
106 44.8 38.6 58.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 1.47 ppbv

RT: 13.95 min Scan# 4001

Delta R.T. -0.02 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

Instrument :

MSVOA_L

ClientSampled :

SS-3

Tot Ion: 91 Resp: 607853

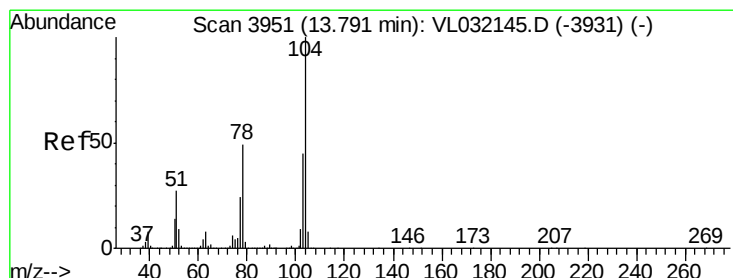
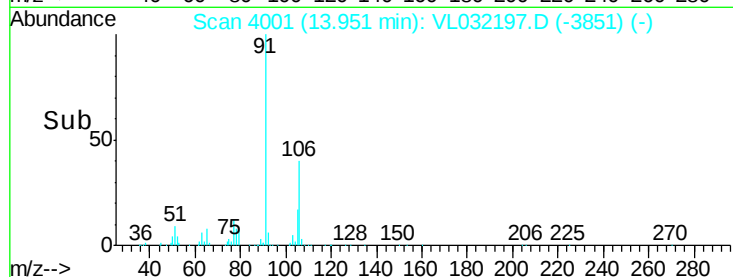
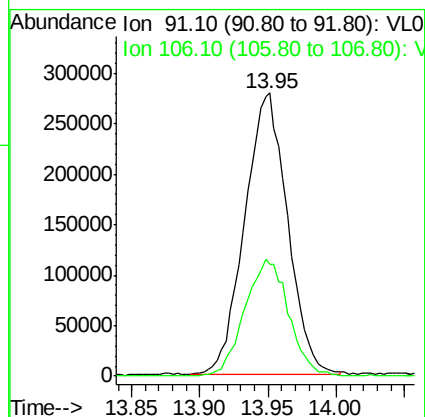
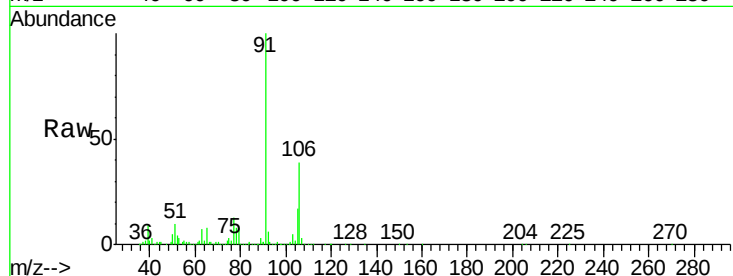
Ion Ratio Lower Upper

91 100

106 42.5 23.3 69.8

Manual Integrations
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#61

Styrene

Concen: 0.13 ppbv

RT: 13.79 min Scan# 3951

Delta R.T. -0.01 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

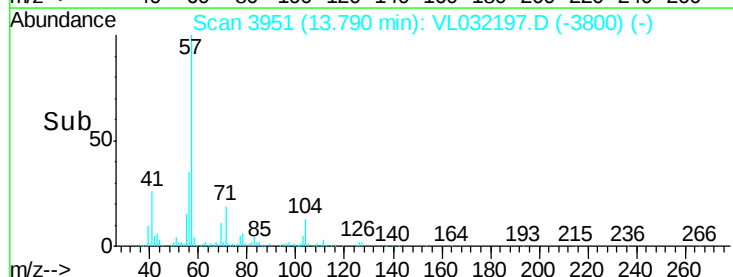
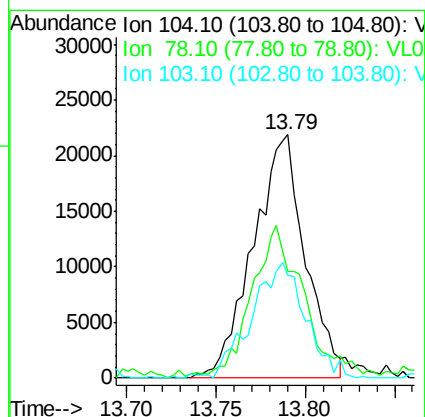
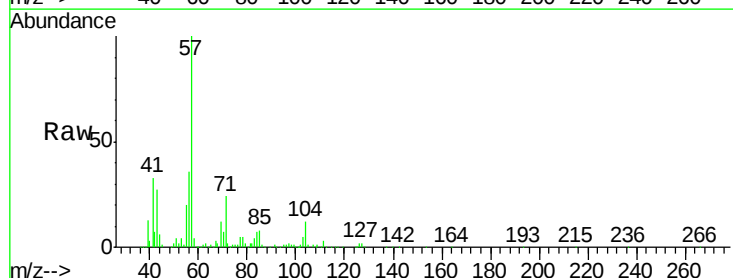
Tgt Ion: 104 Resp: 44548

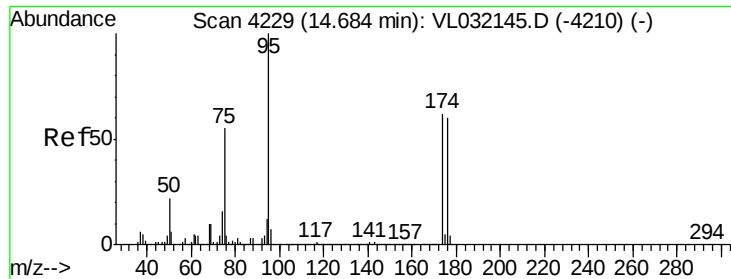
Ion Ratio Lower Upper

104 100

78 64.5 37.9 56.9#

103 49.7 36.6 55.0





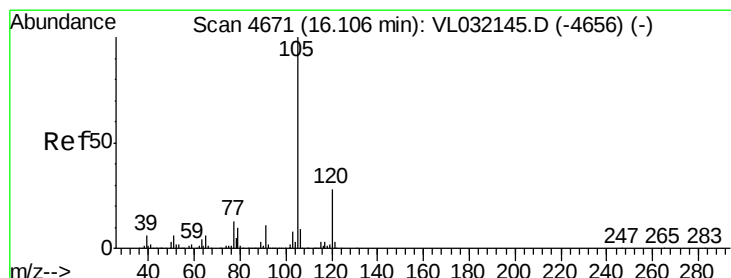
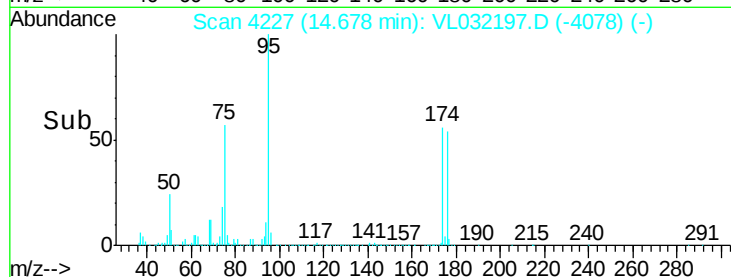
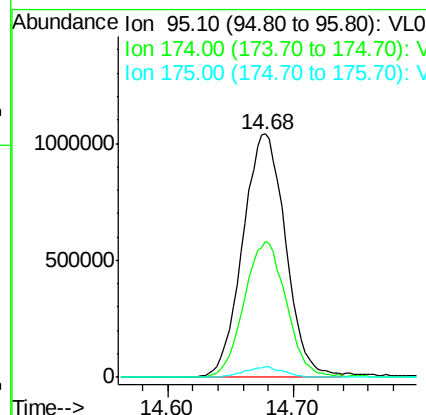
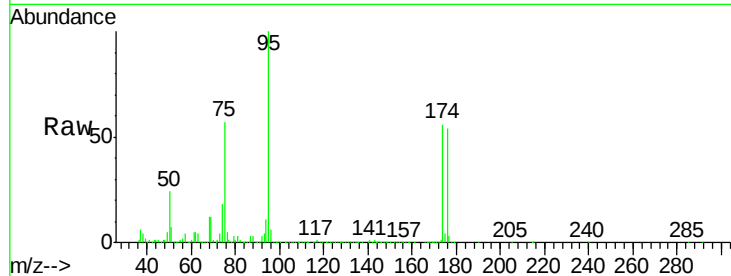
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.06 ppbv
 RT: 14.68 min Scan# 4227
 Delta R.T. -0.02 min
 Lab File: VL032197.D
 Acq: 3 Jul 2018 1:06

Instrument :
 MSVOA_L
 ClientSampled :
 SS-3

Tot Ion: 95 Resp: 2466109
 Ion Ratio Lower Upper
 95 100
 174 55.4 52.1 78.1
 175 4.0 4.0 6.0

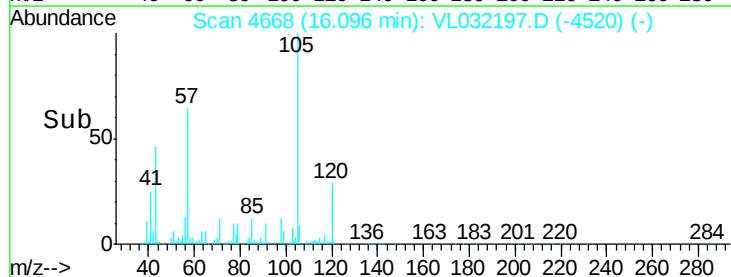
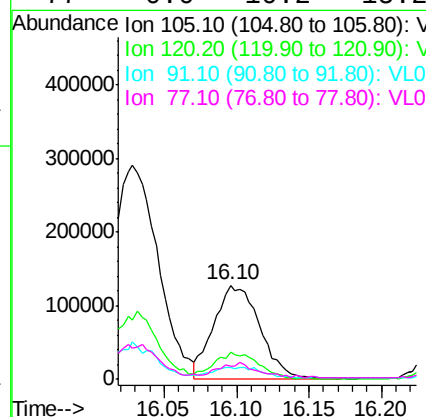
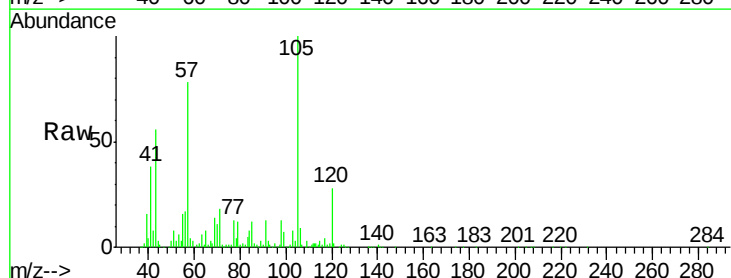
Manual Integrations
 APPROVED

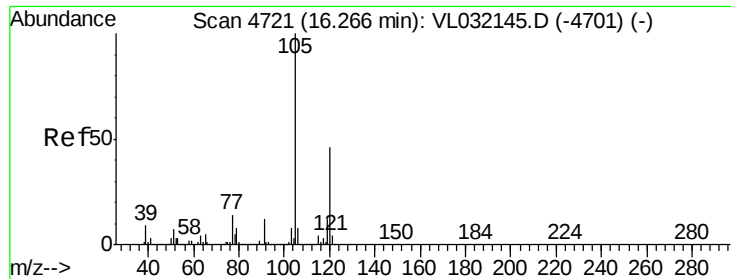
MMDadoda
 7/3/2018 5:17:23 PM



#72
 4-Ethyltoluene
 Concen: 0.53 ppbv m
 RT: 16.10 min Scan# 4668
 Delta R.T. -0.02 min
 Lab File: VL032197.D
 Acq: 3 Jul 2018 1:06

Tgt Ion: 105 Resp: 284513
 Ion Ratio Lower Upper
 105 100
 120 27.1 24.3 36.5
 91 11.7 9.4 14.0
 77 0.0 10.2 15.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.86 ppbv

RT: 16.26 min Scan# 4718

Delta R.T. -0.02 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

Instrument :

MSVOA_L

ClientSampled :

SS-3

Tot Ion:105 Resp: 434498

Ion Ratio Lower Upper

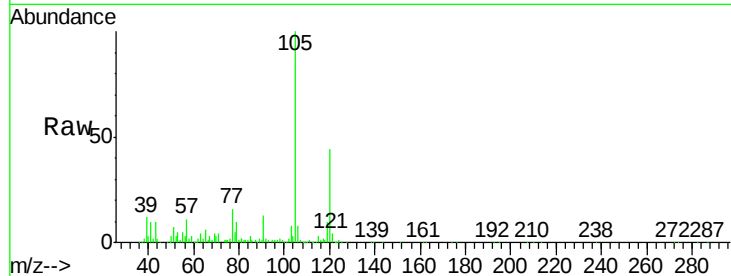
105 100

120 44.0 38.6 57.8

Manual Integrations
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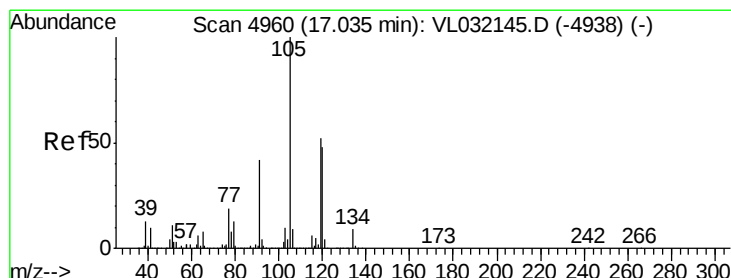
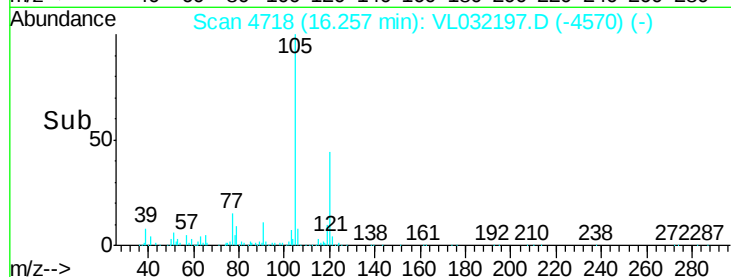
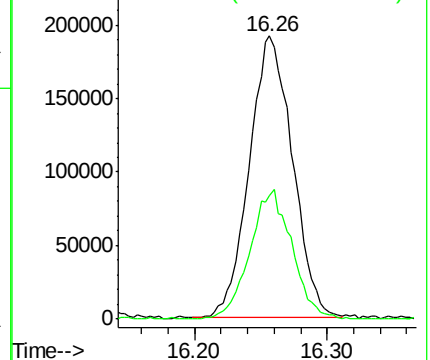
MMDadoda

7/3/2018 5:17:23 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 2.84 ppbv

RT: 17.02 min Scan# 4957

Delta R.T. -0.02 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

Tgt Ion:105 Resp: 1442184

Ion Ratio Lower Upper

105 100

120 41.7 38.8 58.2

91 11.0 33.6 50.4#

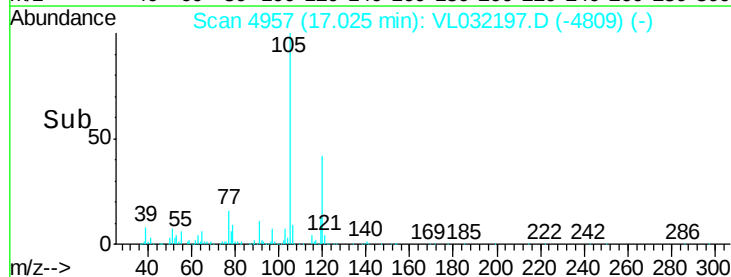
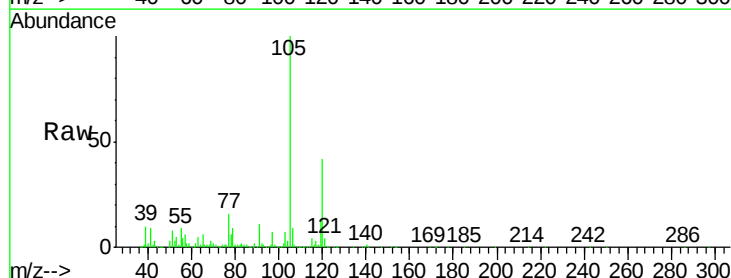
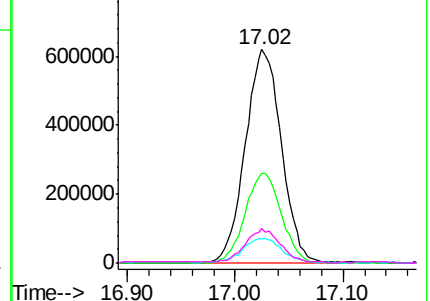
77 15.9 16.0 24.0#

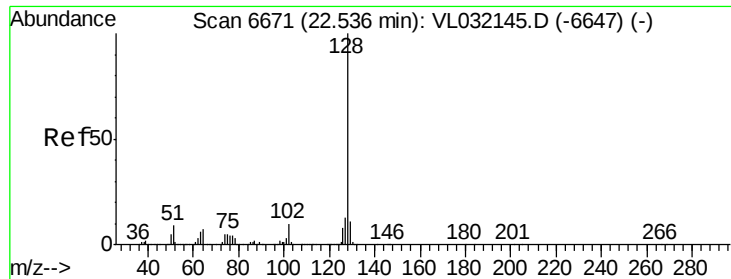
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#79

Naphthalene

Concen: 0.82 ppbv

RT: 22.53 min Scan# 6670

Delta R.T. -0.02 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

Instrument :

MSVOA_L

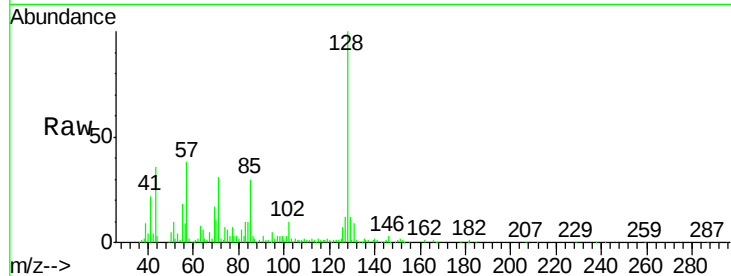
ClientSampled :

SS-3

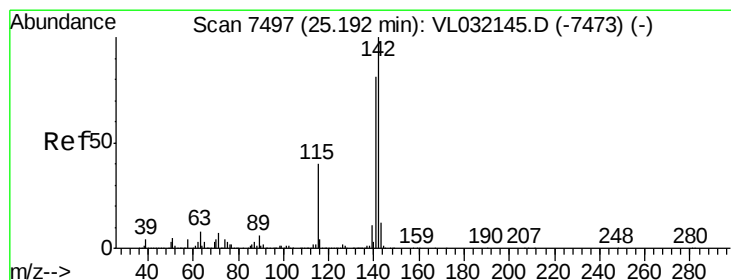
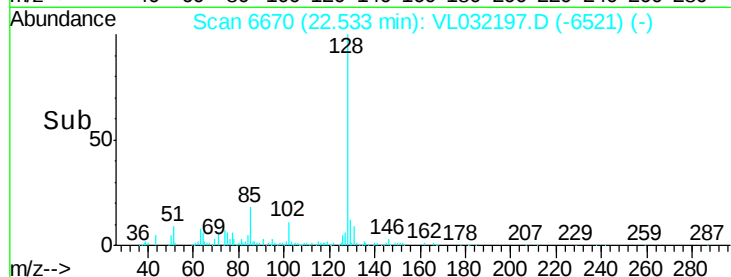
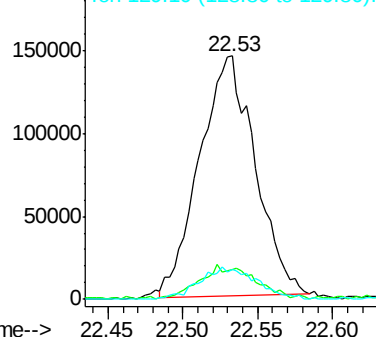
Tot Ion	128	Resp	376232
Ion Ratio	Lower	Upper	
128	100		
127	12.0	10.5	15.7
129	12.3	9.0	13.6

Manual Integrations
APPROVED

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7/3/2018 5:17:23 PM



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.88 ppbv

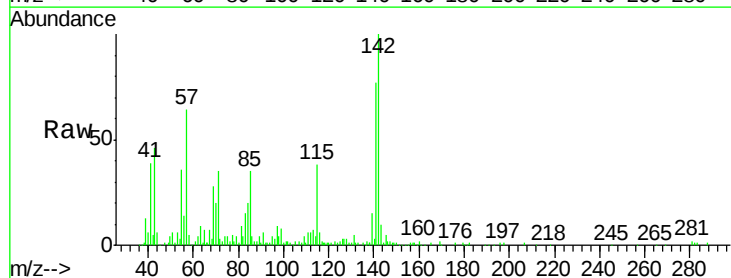
RT: 25.19 min Scan# 7496

Delta R.T. -0.02 min

Lab File: VL032197.D

Acq: 3 Jul 2018 1:06

Tgt Ion	142	Resp	146965
Ion Ratio	Lower	Upper	
142	100		
141	83.6	65.8	98.6
115	56.1	29.4	44.0#



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

