

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
 Data File : VL031284.D
 Acq On : 21 Dec 2017 00:37
 Operator : SY/AP
 Sample : I7005-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-5DL

Manual Integrations
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 12/22/2017 4:55:03 PM

Quant Time: Dec 22 05:59:50 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 04:29:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1550756	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3791363	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3535797	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2841053	11.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	113.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.14	41	193733	2.24	ppbv	97
10) Heptane	8.41	43	29252	0.11	ppbv	93
11) Trichlorofluoromethane	4.13	101	40205	0.19	ppbv	99
13) Ethanol	3.79	45	15472	0.62	ppbv	91
15) Acetone	4.03	43	444496	2.17	ppbv #	77
17) tert-Butyl alcohol	4.53	59	17912	0.16	ppbv #	73
20) Methylene Chloride	4.54	84	26418	0.39	ppbv	90
26) Hexane	5.93	57	44633	0.23	ppbv #	8
27) Carbon Disulfide	4.76	76	121390	0.61	ppbv #	92
34) 2-Butanone	5.47	43	1343965	5.02	ppbv	98
36) Benzene	7.16	78	61315m	0.15	ppbv	
38) Trichloroethene	8.12	130	210918	1.35	ppbv	97
51) 2-Hexanone	10.47	43	84002	0.27	ppbv #	99
52) Tetrachloroethene	11.55	164	3901946	26.32	ppbv	97
53) Toluene	10.11	91	183681m	0.42	ppbv	
59) m/p-Xylene	13.29	91	64265m	0.14	ppbv	

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

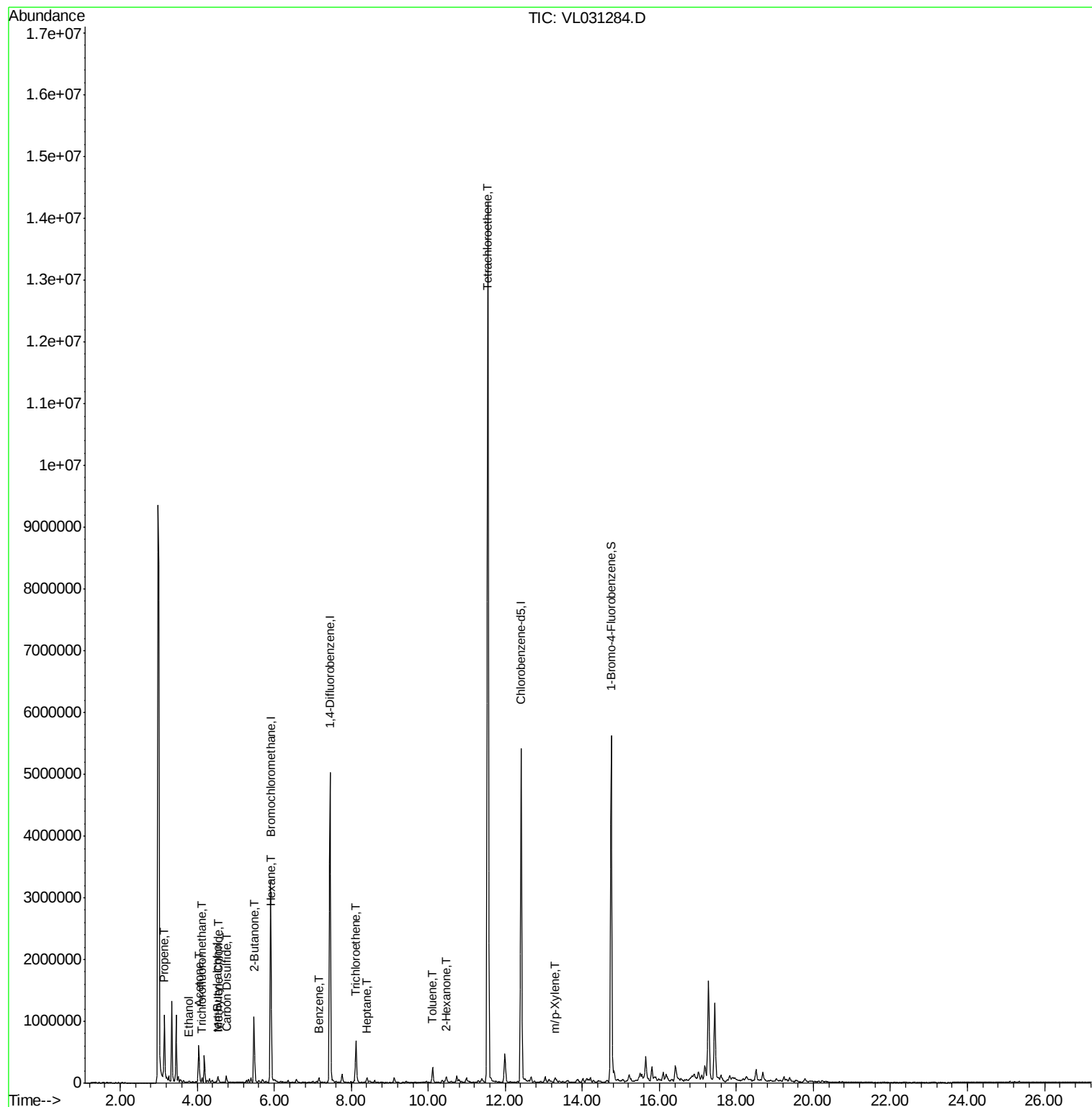
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
Data File : VL031284.D
Acq On : 21 Dec 2017 00:37
Operator : SY/AP
Sample : I7005-06DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

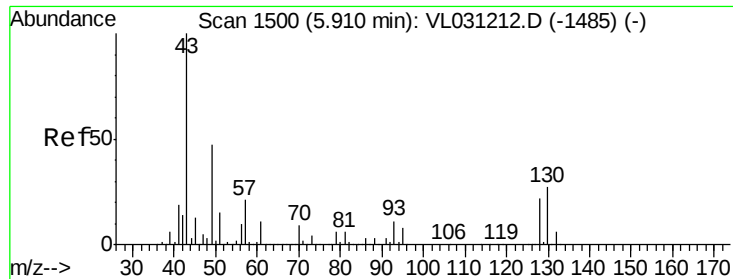
Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-5DL

Manual Integrations
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12/22/2017 4:55:03 PM

Quant Time: Dec 22 05:59:50 2017
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec
QLast Update : Thu Dec 14 04:29:58 2017
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VL031284.D

Acq: 21 Dec 2017 00:37

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-5DL

Tot Ion: 49 Resp: 1550756

Ion Ratio Lower Upper

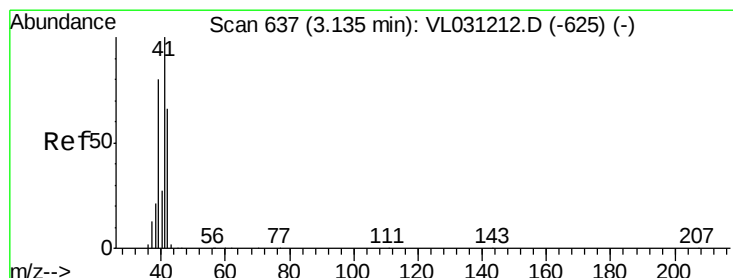
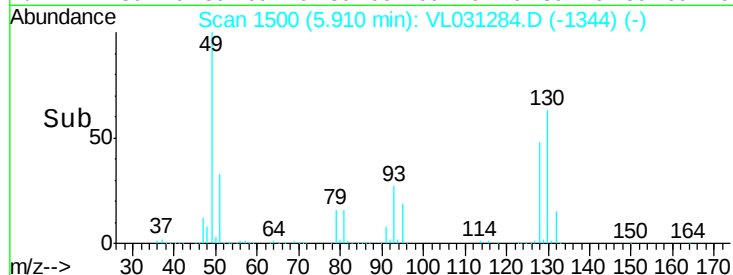
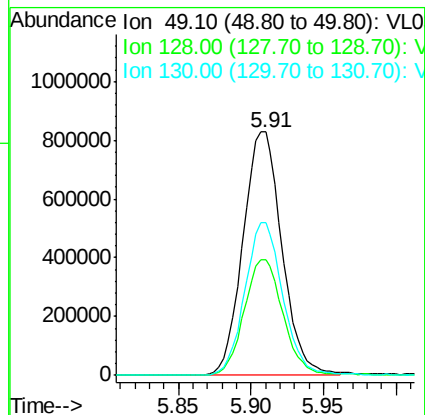
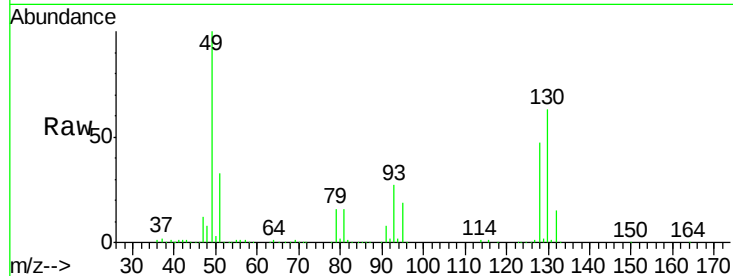
49 100

128 47.7 23.2 69.5

130 61.9 29.6 88.8

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#9

Propene

Concen: 2.24 ppbv

RT: 3.14 min Scan# 638

Delta R.T. 0.00 min

Lab File: VL031284.D

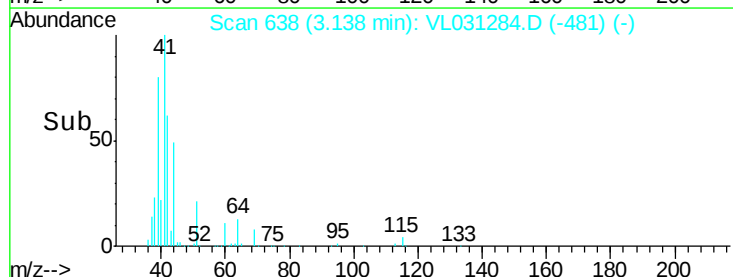
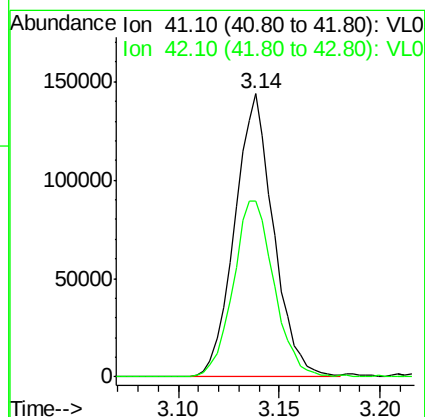
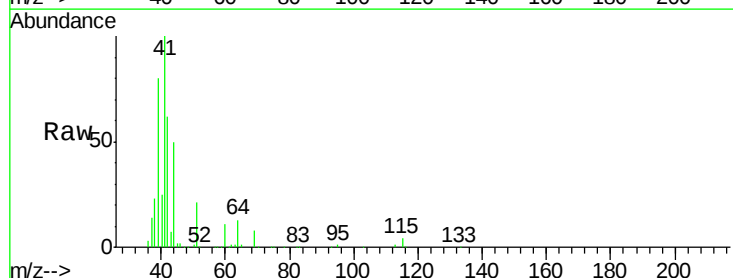
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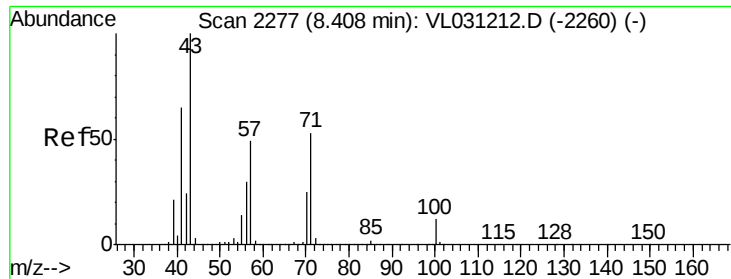
Tgt Ion: 41 Resp: 193733

Ion Ratio Lower Upper

41 100

42 65.8 54.3 81.5





#10

Heptane

Concen: 0.11 ppbv

RT: 8.41 min Scan# 2277

Delta R.T. 0.00 min

Lab File: VL031284.D

Acq: 21 Dec 2017 00:37

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-5DL

Tot Ion: 43 Resp: 29252

Ion Ratio Lower Upper

43 100

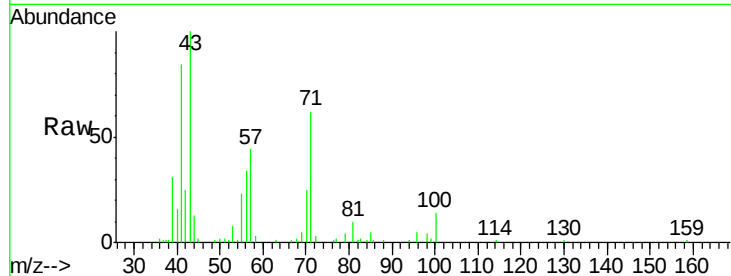
57 54.9 39.8 59.8

Manual Integrations

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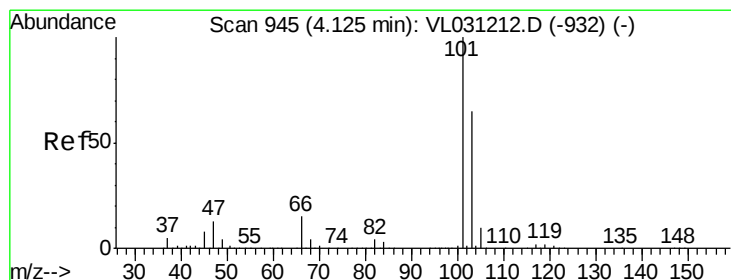
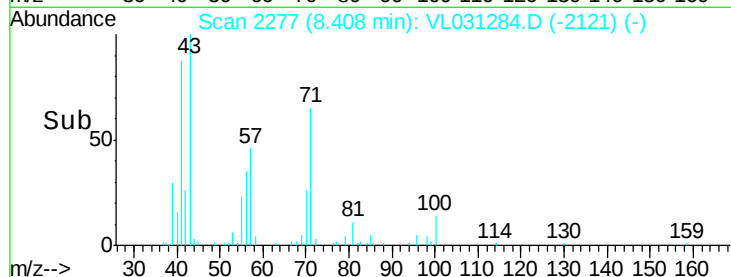
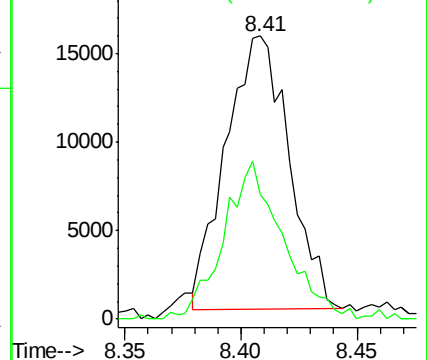
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.19 ppbv

RT: 4.13 min Scan# 945

Delta R.T. 0.00 min

Lab File: VL031284.D

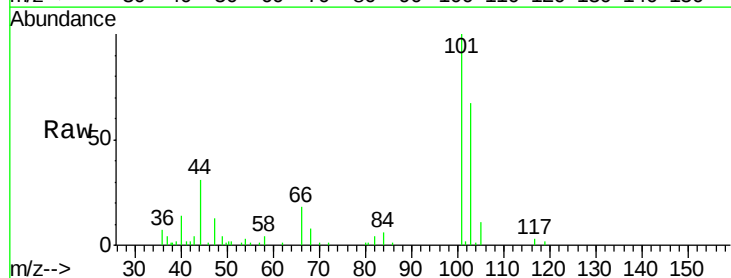
Acq: 21 Dec 2017 00:37

Tgt Ion: 101 Resp: 40205

Ion Ratio Lower Upper

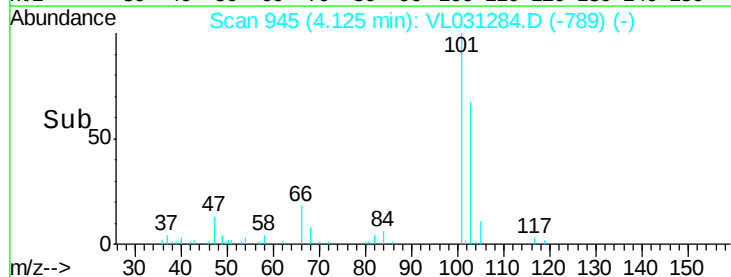
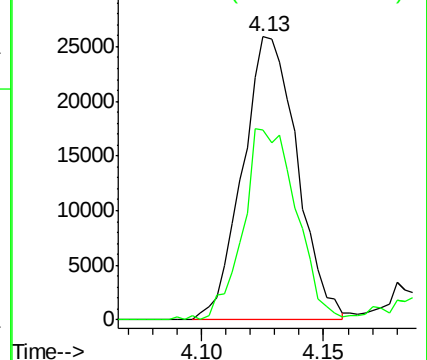
101 100

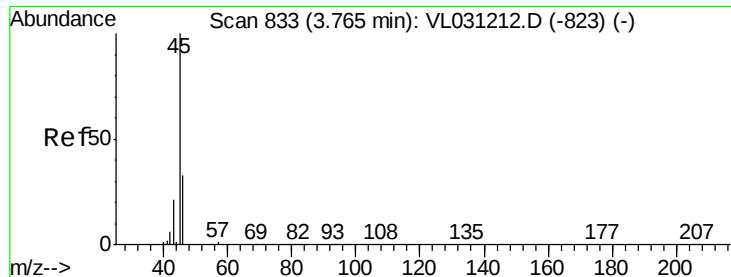
103 65.9 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





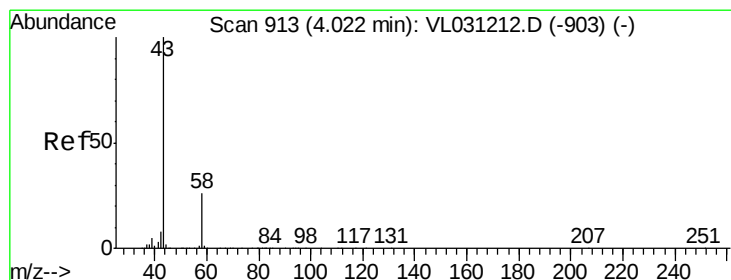
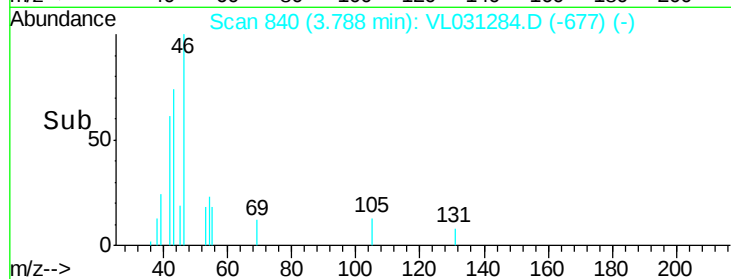
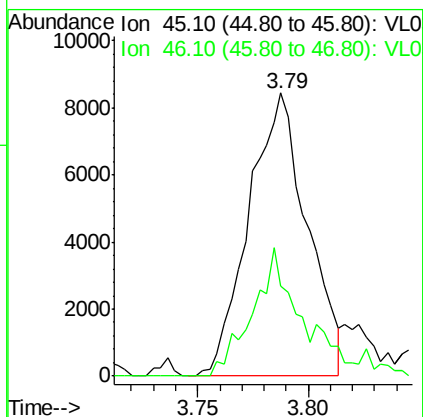
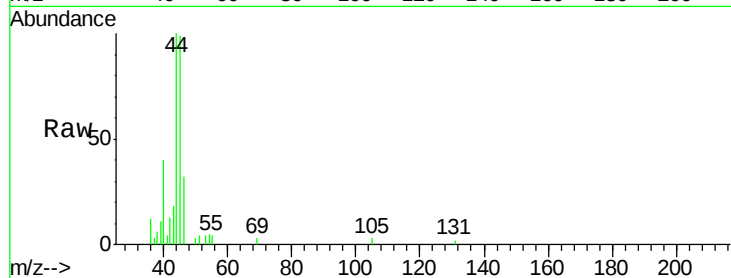
#13
Ethanol
Concen: 0.62 ppbv
RT: 3.79 min Scan# 840
Delta R.T. 0.02 min
Lab File: VL031284.D
Acq: 21 Dec 2017 00:37

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-5DL

Tot Ion	45	46	Ratio	Lower	Upper
15472	100	42.0		14.6	58.4

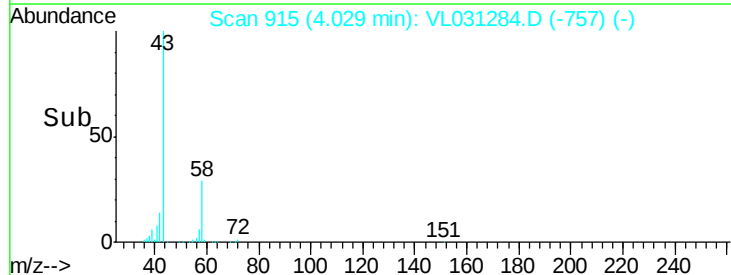
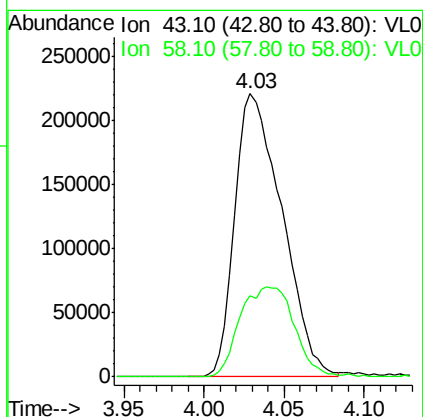
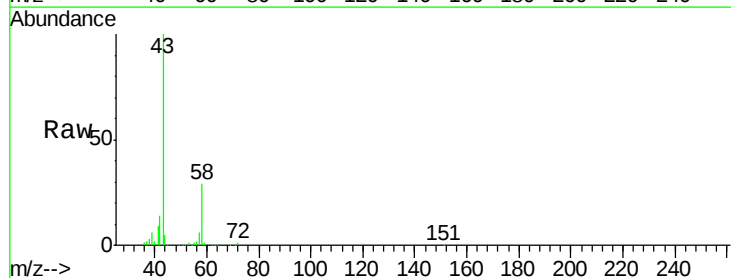
Manual Integrations
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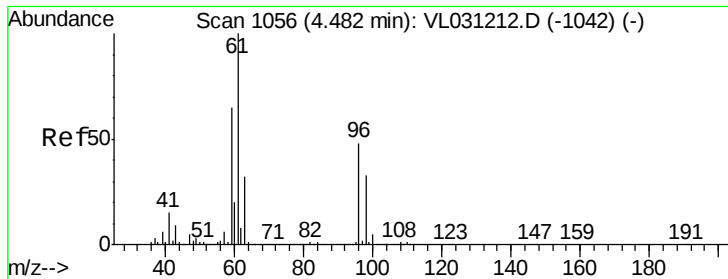
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#15
Acetone
Concen: 2.17 ppbv
RT: 4.03 min Scan# 915
Delta R.T. 0.01 min
Lab File: VL031284.D
Acq: 21 Dec 2017 00:37

Tgt Ion	43	58	Ratio	Lower	Upper
444496	100	37.2		20.3	30.5#





#17

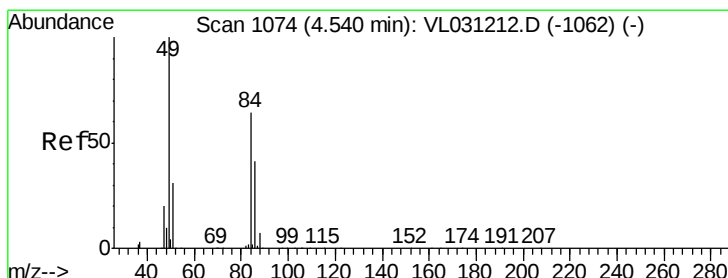
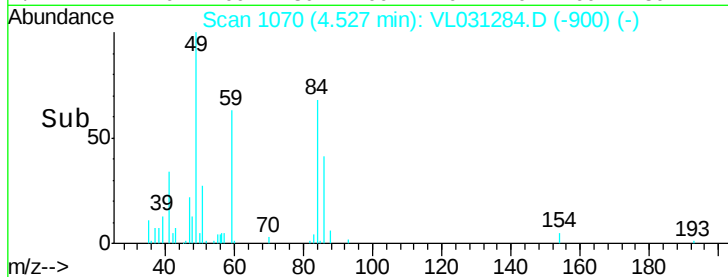
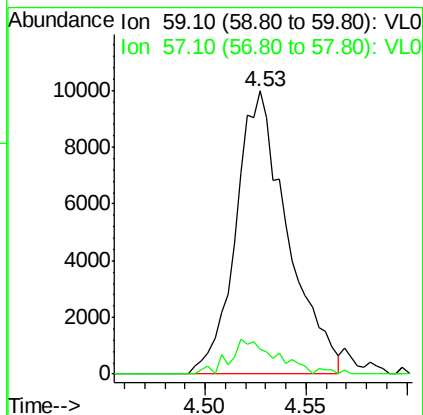
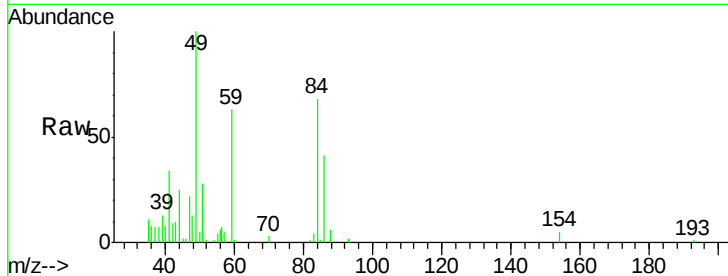
tert-Butyl alcohol
Concen: 0.16 ppbv
RT: 4.53 min Scan# 1070
Delta R.T. 0.05 min
Lab File: VL031284.D
Acq: 21 Dec 2017 00:37

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-5DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#

Manual Integrations
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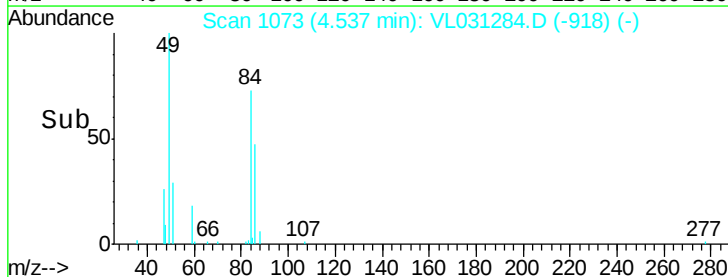
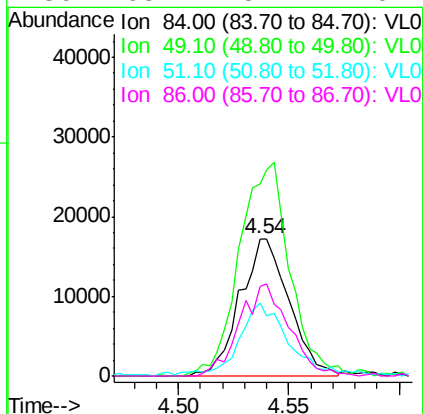
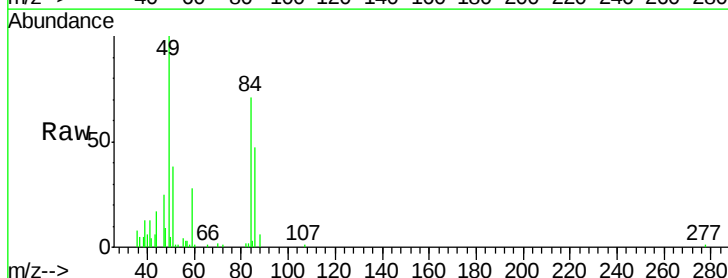
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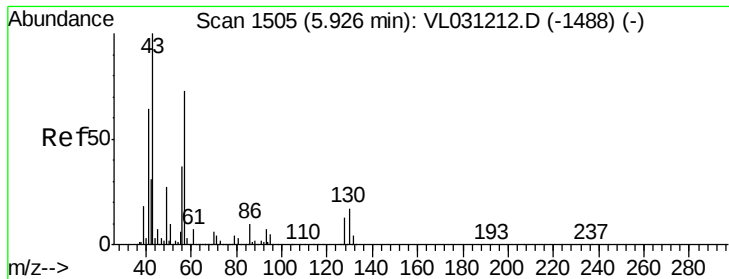


#20

Methylene Chloride
Concen: 0.39 ppbv
RT: 4.54 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VL031284.D
Acq: 21 Dec 2017 00:37

Tgt Ion	Ratio	Lower	Upper
84	100		
49	138.0	125.8	188.6
51	52.4	39.3	58.9
86	65.2	51.1	76.7





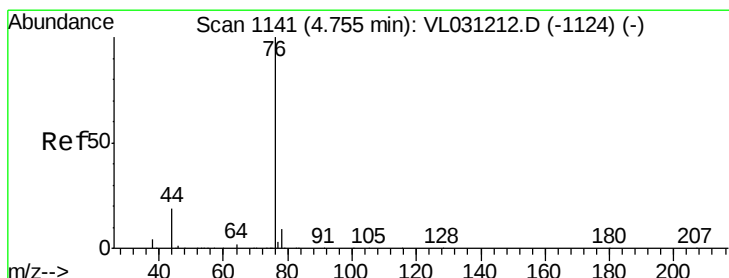
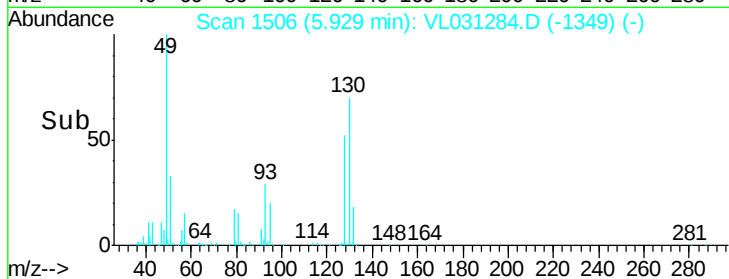
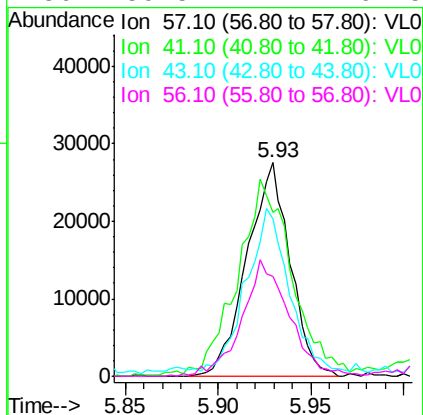
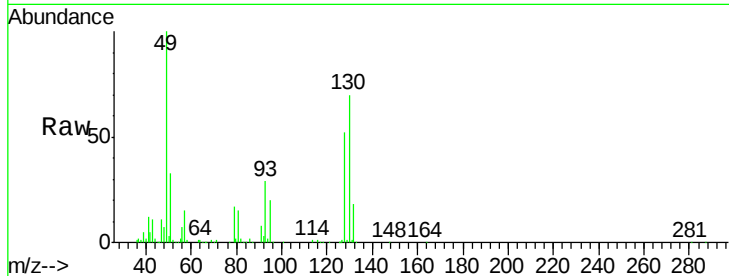
#26
Hexane
Concen: 0.23 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL031284.D
Acq: 21 Dec 2017 00:37

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-5DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	117.8	70.3	105.5#
43	0.0	173.8	260.8#
56	59.5	41.7	62.5

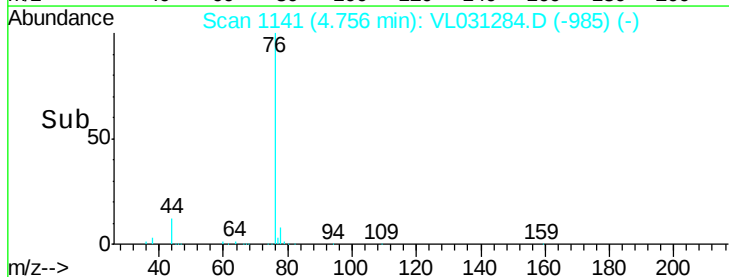
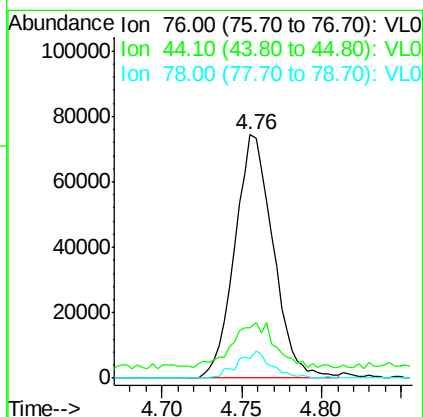
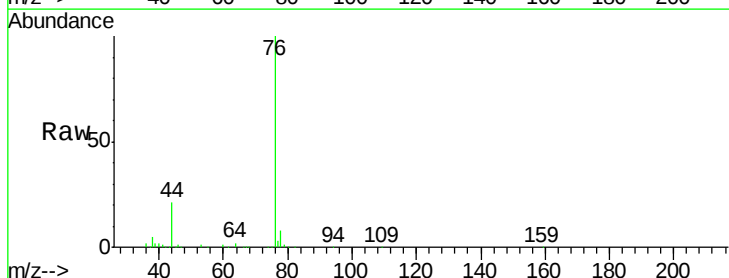
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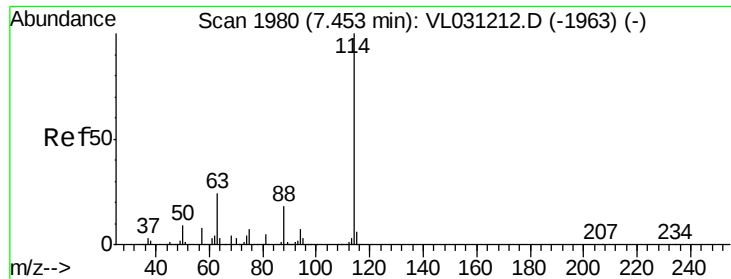
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#27
Carbon Disulfide
Concen: 0.61 ppbv
RT: 4.76 min Scan# 1141
Delta R.T. 0.00 min
Lab File: VL031284.D
Acq: 21 Dec 2017 00:37

Tgt Ion	Ratio	Lower	Upper
76	100		
44	24.8	16.0	24.0#
78	10.2	7.5	11.3





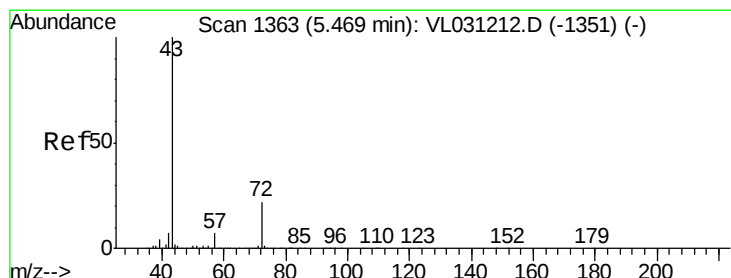
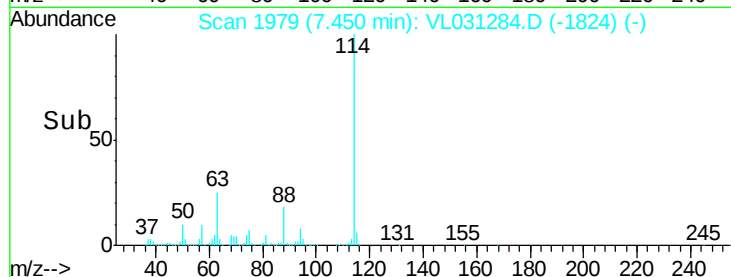
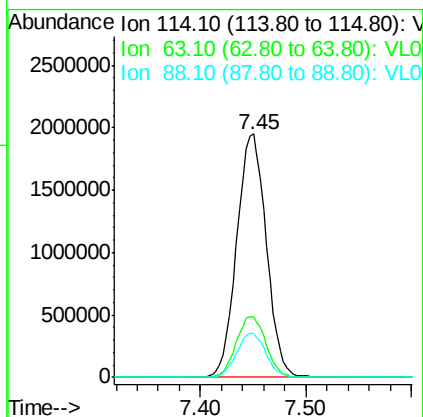
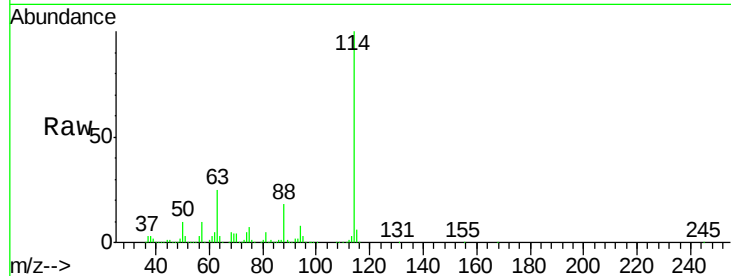
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VL031284.D
 Acq: 21 Dec 2017 00:37

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-5DL

Tot Ion:114 Resp: 3791363
 Ion Ratio Lower Upper
 114 100
 63 25.2 19.8 29.8
 88 18.0 14.2 21.4

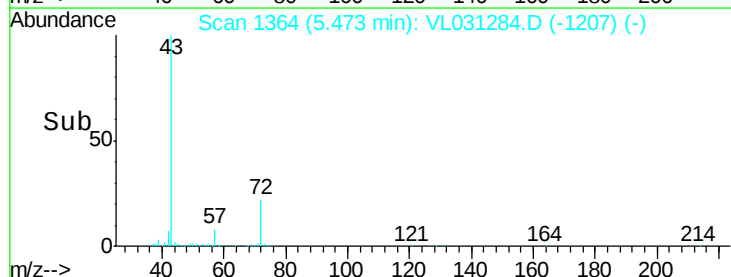
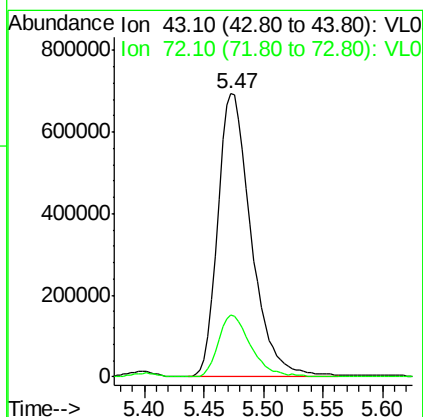
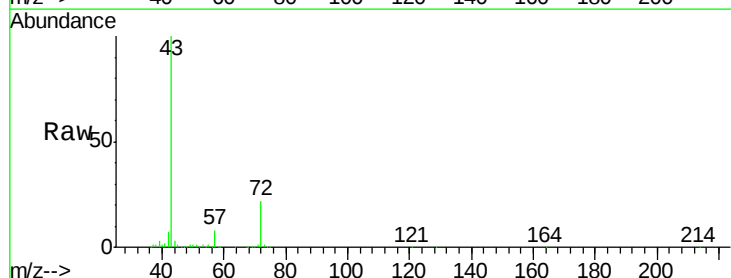
Manual Integrations
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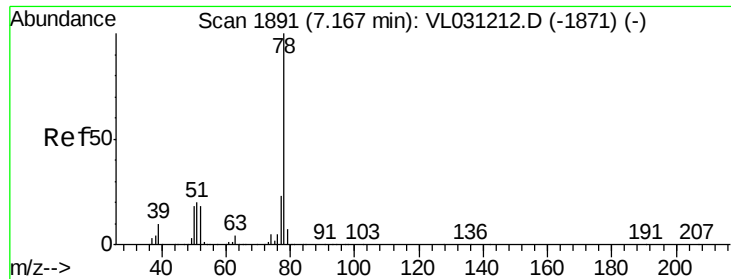
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#34
 2-Butanone
 Concen: 5.02 ppbv
 RT: 5.47 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL031284.D
 Acq: 21 Dec 2017 00:37

Tgt Ion: 43 Resp: 1343965
 Ion Ratio Lower Upper
 43 100
 72 21.5 18.1 27.1





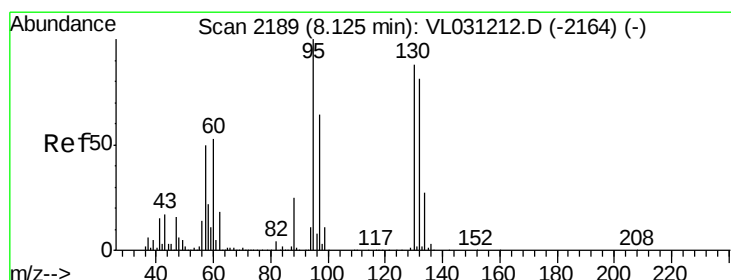
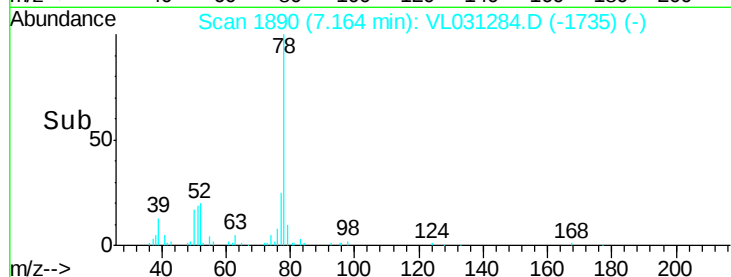
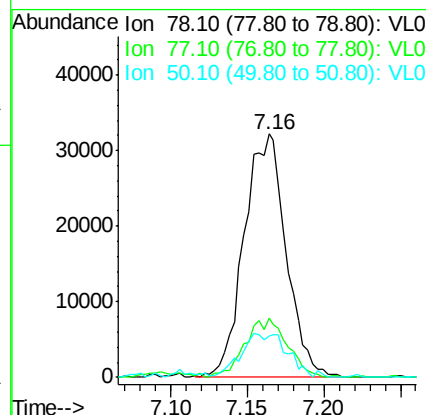
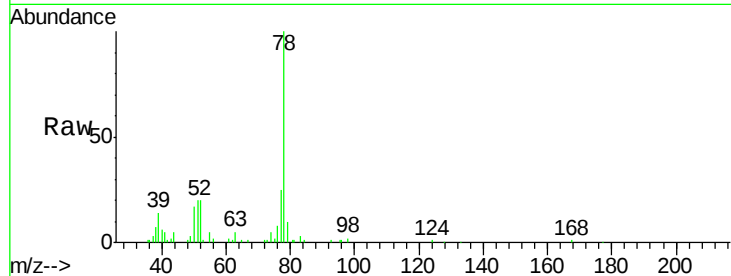
#36
Benzene
Concen: 0.15 ppbv m
RT: 7.16 min Scan# 1890
Delta R.T. -0.00 min
Lab File: VL031284.D
Acq: 21 Dec 2017 00:37

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-5DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	24.6	18.1	27.1
50	16.8	14.6	21.8

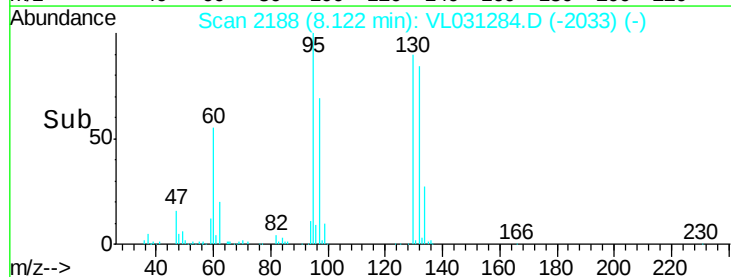
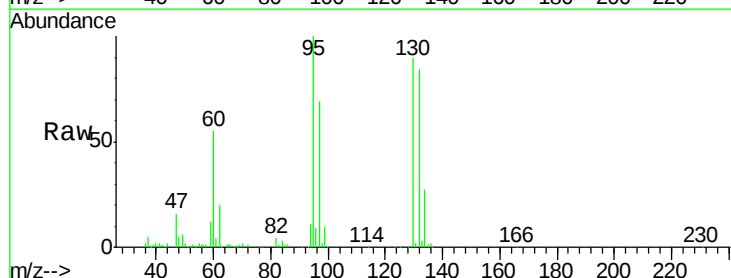
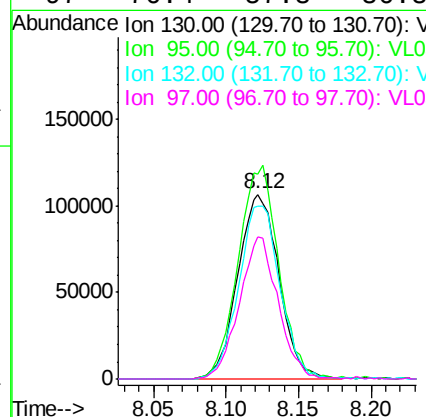
Manual Integrations
APPROVED

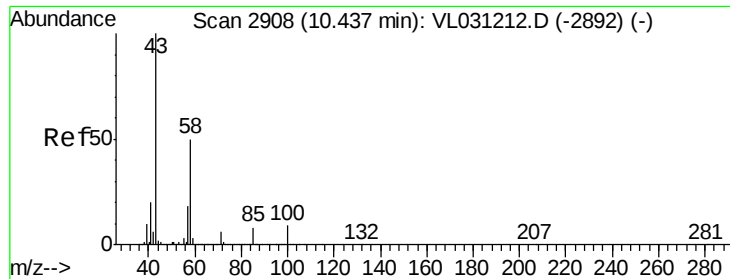
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#38
Trichloroethene
Concen: 1.35 ppbv
RT: 8.12 min Scan# 2188
Delta R.T. -0.00 min
Lab File: VL031284.D
Acq: 21 Dec 2017 00:37

Tgt Ion	Ratio	Lower	Upper
130	100		
95	110.9	90.6	135.8
132	93.2	73.5	110.3
97	76.4	57.8	86.8





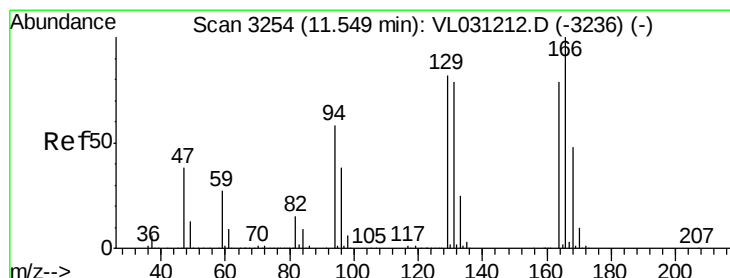
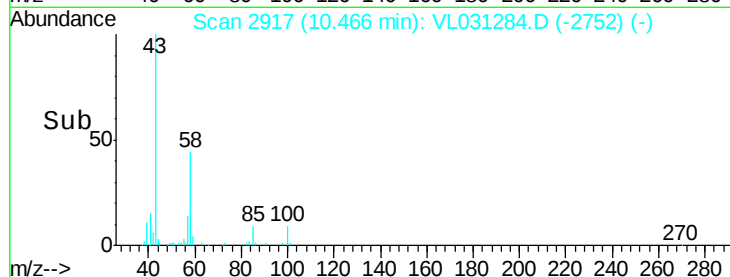
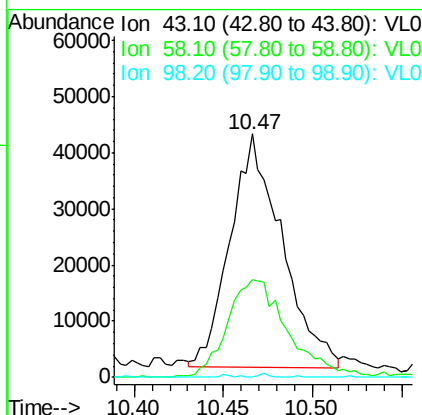
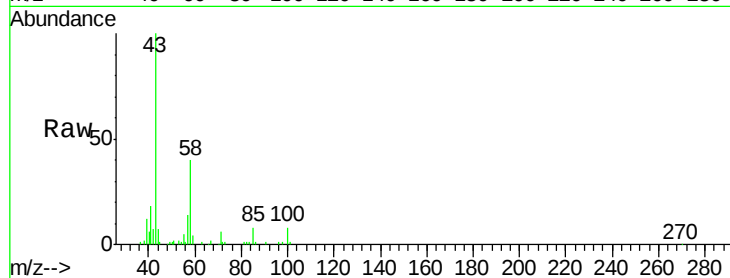
#51
2-Hexanone
Concen: 0.27 ppbv
RT: 10.47 min Scan# 2917
Delta R.T. 0.03 min
Lab File: VL031284.D
Acq: 21 Dec 2017 00:37

Instrument :
MSVOA_L
ClientSampled :
EP1-SV-5DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.9	39.8	59.6
98	0.7	0.0	0.0#

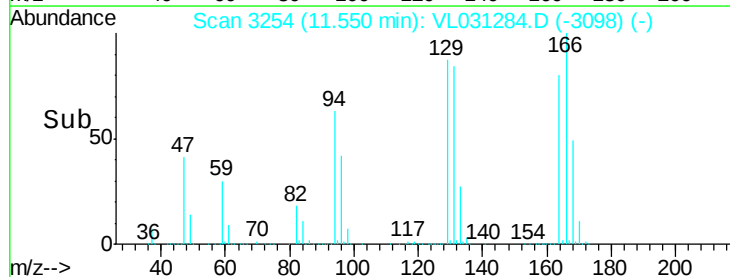
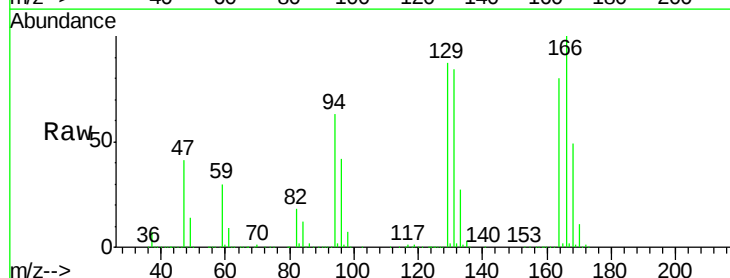
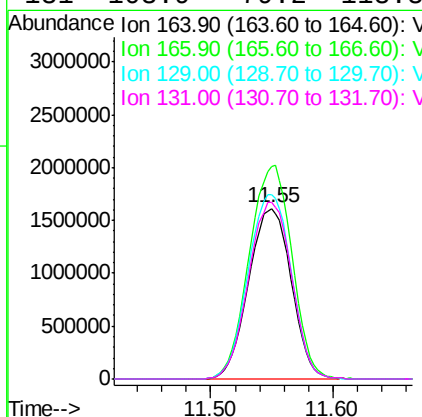
Manual Integrations
APPROVED

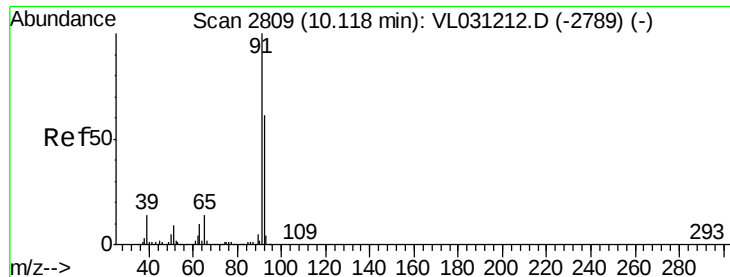
MMDadoda
12/22/2017 4:55:03 PM



#52
Tetrachloroethene
Concen: 26.32 ppbv
RT: 11.55 min Scan# 3254
Delta R.T. 0.00 min
Lab File: VL031284.D
Acq: 21 Dec 2017 00:37

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.4	100.6	151.0
129	107.7	82.9	124.3
131	103.9	79.2	118.8





#53

Toluene

Concen: 0.42 ppbv m

RT: 10.11 min Scan# 2806

Delta R.T. -0.01 min

Lab File: VL031284.D

Acq: 21 Dec 2017 00:37

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-5DL

Tot Ion: 91 Resp: 183681

Ion Ratio Lower Upper

91 100

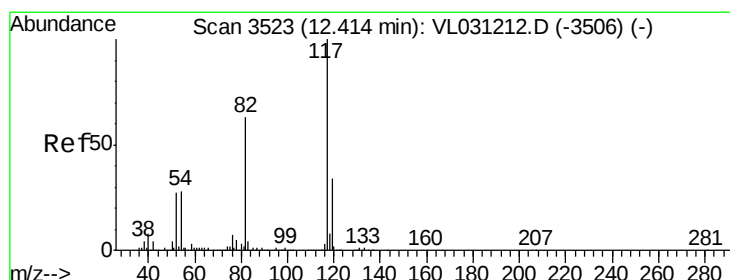
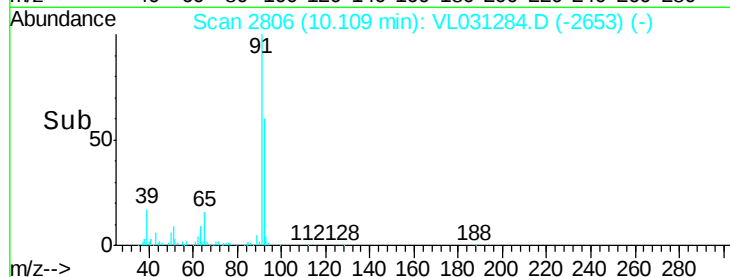
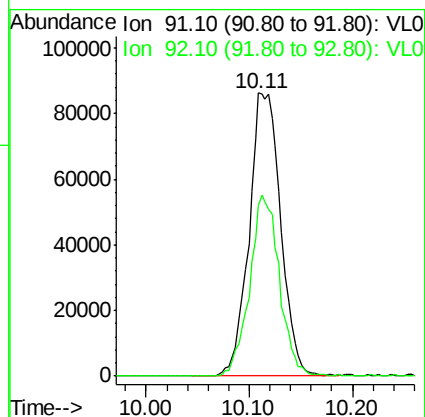
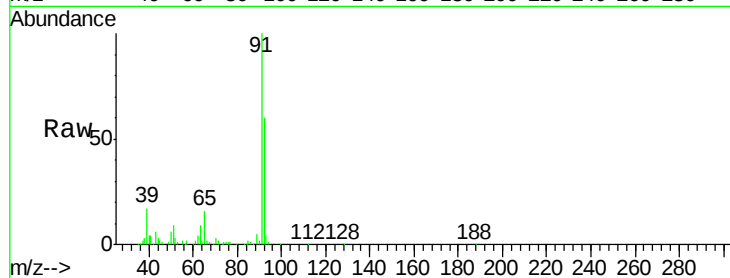
92 60.3 49.1 73.7

Manual Integrations

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12/22/2017 4:55:03 PM



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.41 min Scan# 3522

Delta R.T. -0.00 min

Lab File: VL031284.D

Acq: 21 Dec 2017 00:37

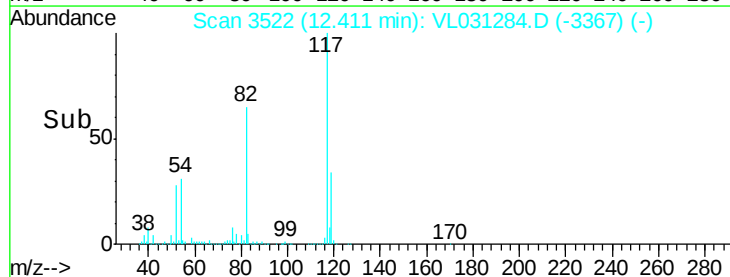
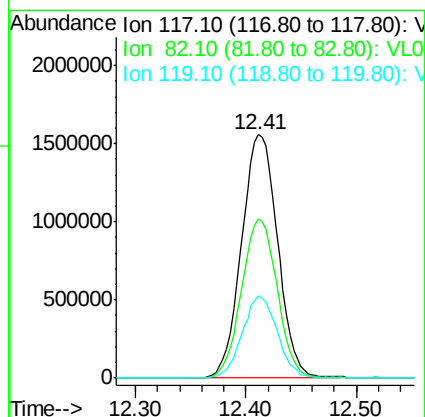
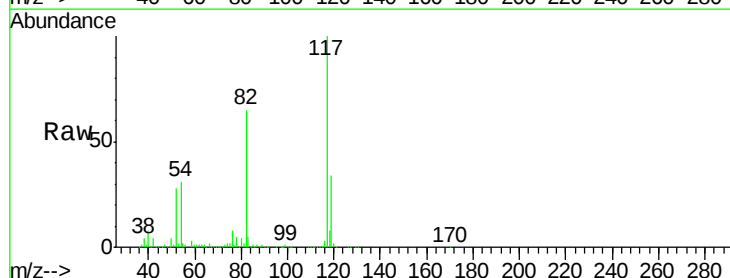
Tgt Ion: 117 Resp: 3535797

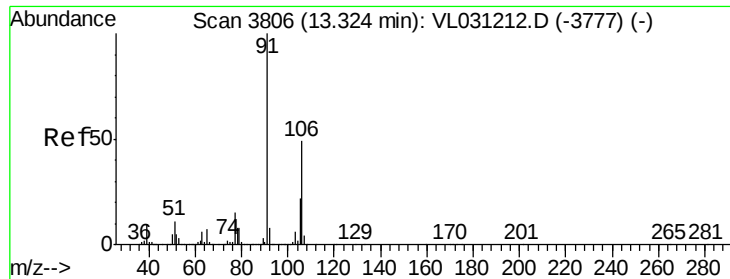
Ion Ratio Lower Upper

117 100

82 64.5 48.1 72.1

119 32.9 23.1 34.7





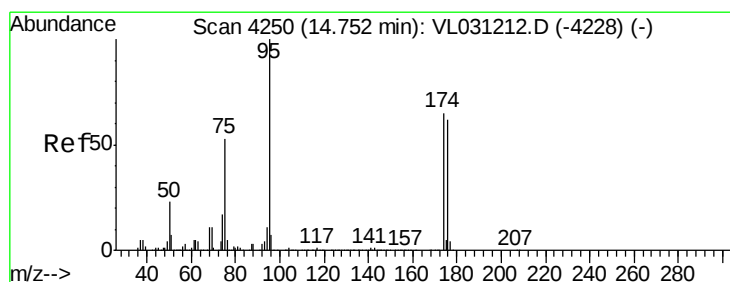
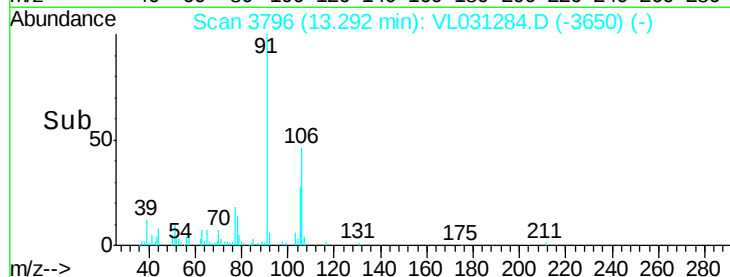
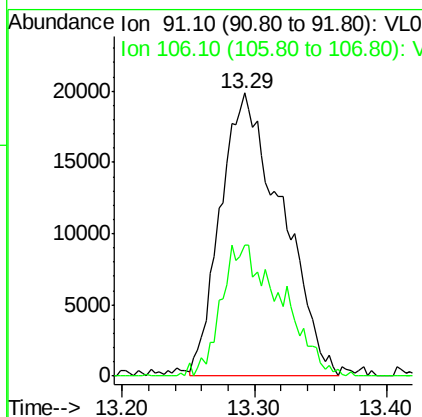
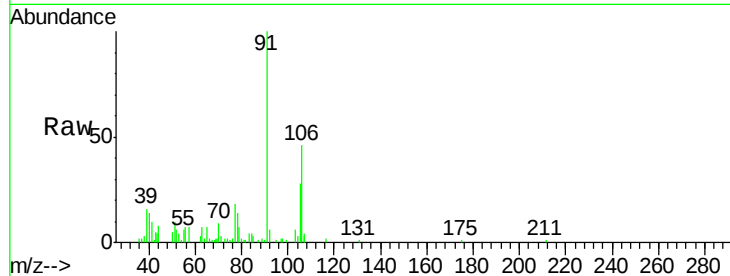
#59
m/p-Xylene
Concen: 0.14 ppbv m
RT: 13.29 min Scan# 3796
Delta R.T. -0.03 min
Lab File: VL031284.D
Acq: 21 Dec 2017 00:37

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-5DL

Tot Ion: 91 Resp: 64265
Ion Ratio Lower Upper
91 100
106 0.0 38.5 57.7#

Manual Integrations
APPROVED

MMDadoda
12/22/2017 4:55:03 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 11.30 ppbv
RT: 14.75 min Scan# 4248
Delta R.T. -0.01 min
Lab File: VL031284.D
Acq: 21 Dec 2017 00:37

Tgt Ion: 95 Resp: 2841053
Ion Ratio Lower Upper
95 100
174 61.3 52.5 78.7
175 4.5 4.1 6.1

