

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090518\
 Data File : VL032469.D
 Acq On : 5 Sep 2018 23:53
 Operator : SY/AP
 Sample : J4805-02 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-2

Manual Integrations
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MMDadoda
 9/7/2018 10:46:03 AM

Quant Time: Sep 06 16:01:06 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1620952	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3134295	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3187859	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2454774	10.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

Target Compounds

						Ovalue
3) Chlorodifluoromethane	3.04	51	22704	0.15	ppbv	94
4) Chloromethane	3.20	50	56653	0.64	ppbv	96
7) Chloroethane	3.63	64	4533	0.15	ppbv #	83
9) Propene	3.06	41	1055285	17.83	ppbv	93
10) Heptane	8.29	43	85433	0.40	ppbv	98
13) Ethanol	3.68	45	511950	27.75	ppbv	98
15) Acetone	3.93	43	1311921	8.99	ppbv #	60
17) tert-Butyl alcohol	4.40	59	119608	5.32	ppbv #	100
20) Methylene Chloride	4.45	84	85949	1.54	ppbv	97
26) Hexane	5.82	57	232935	1.51	ppbv #	46
27) Carbon Disulfide	4.66	76	383608	2.69	ppbv	98
29) Chloroform	5.89	83	402824	1.71	ppbv	98
30) Cyclohexane	7.30	84	23247m	0.21	ppbv	
32) 1,1,1-Trichloroethane	6.67	97	117407m	0.54	ppbv	
34) 2-Butanone	5.36	43	5010966	24.07	ppbv	100
36) Benzene	7.05	78	177825	0.67	ppbv	97
38) Trichloroethene	8.01	130	1008274	9.95	ppbv	99
41) Tetrahydrofuran	6.20	42	42665	0.38	ppbv	93
51) 2-Hexanone	10.31	43	846263	4.19	ppbv #	98
52) Tetrachloroethene	11.42	164	26177m	0.32	ppbv	
53) Toluene	9.99	91	300175	1.08	ppbv	100
58) Ethyl Benzene	12.92	91	56143	0.15	ppbv	89
59) m/p-Xylene	13.18	91	133008m	0.39	ppbv	
60) o-Xylene	13.90	91	54082m	0.16	ppbv	
74) 1,2,4-Trimethylbenzene	16.97	105	79919m	0.20	ppbv	
79) Naphthalene	22.47	128	1650180	5.08	ppbv	98
80) Naphthalene,2-methyl-	25.15	142	580482	6.72	ppbv	99

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

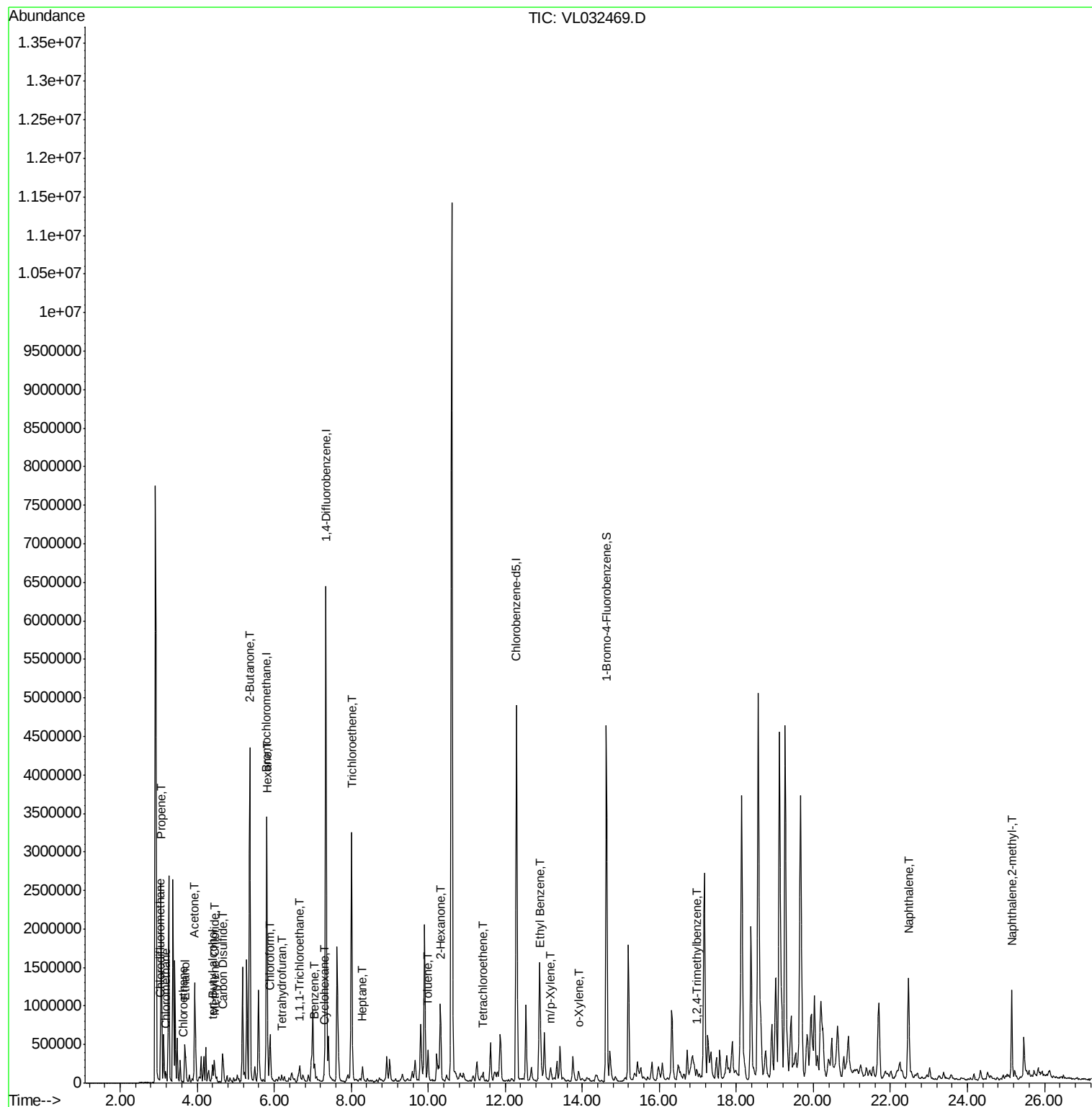
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090518\
Data File : VL032469.D
Acq On : 5 Sep 2018 23:53
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

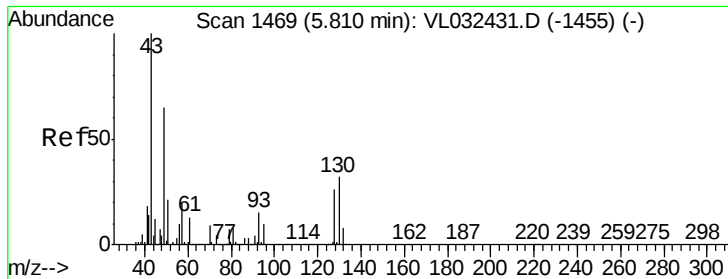
Instrument :
MSVOA_L
ClientSampleId :
VP-2

Manual Integrations
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9/7/2018 10:46:03 AM

Quant Time: Sep 06 16:01:06 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





#1

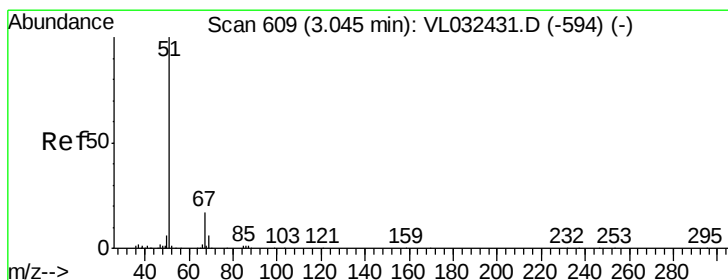
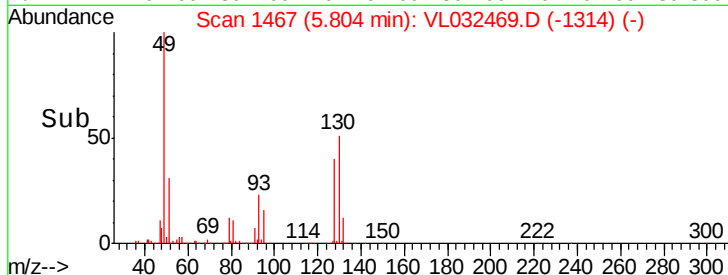
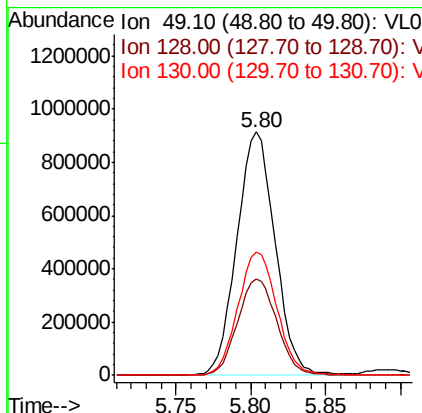
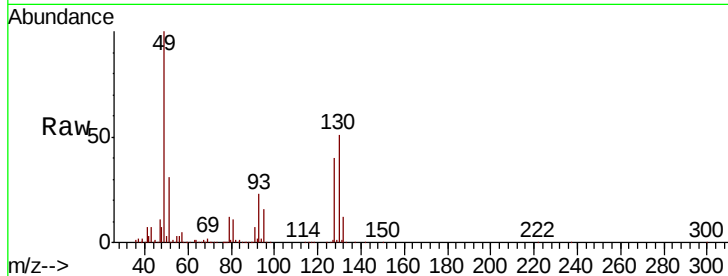
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.80 min Scan# 1467
 Delta R.T. -0.01 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Instrument :
 MSVOA_L
 ClientSampled :
 VP-2

Tot Ion	Ratio	Lower	Upper
49	100		
128	41.0	20.7	62.1
130	52.3	26.6	79.7

Manual Integrations
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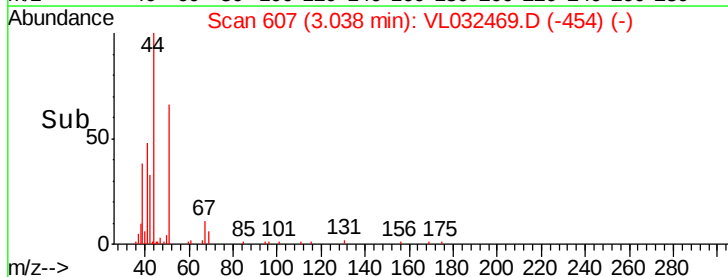
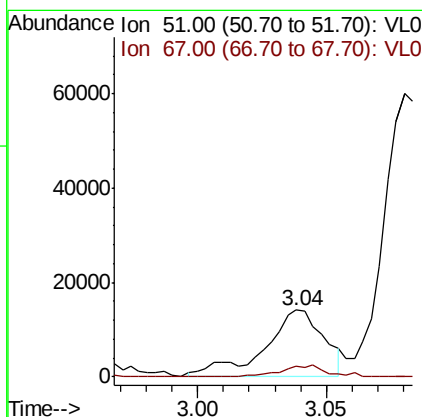
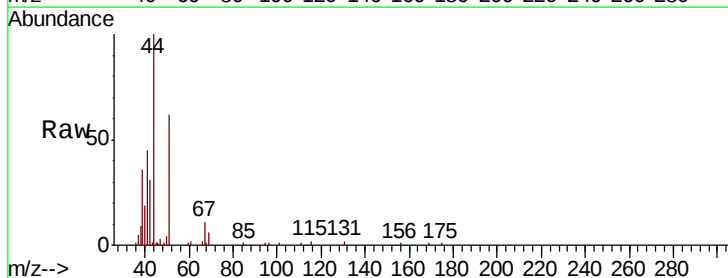
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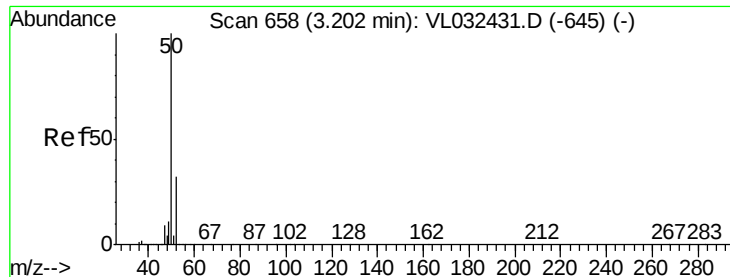


#3

Chlorodifluoromethane
 Concen: 0.15 ppbv
 RT: 3.04 min Scan# 607
 Delta R.T. -0.01 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Tgt Ion	Ratio	Lower	Upper
51	100		
67	14.5	13.8	20.8





#4

Chloromethane

Concen: 0.64 ppbv

RT: 3.20 min Scan# 657

Delta R.T. -0.00 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampleId :

VP-2

Tot Ion: 50 Resp: 56653

Ion Ratio Lower Upper

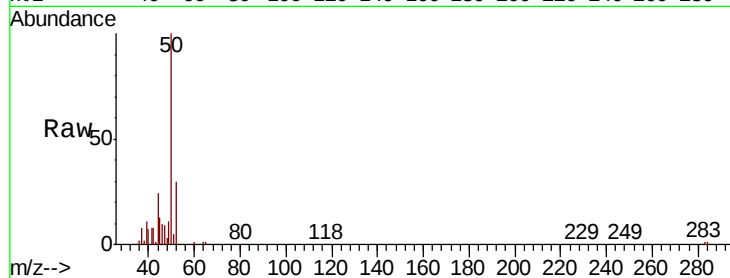
50 100

52 29.9 25.6 38.4

Manual Integrations
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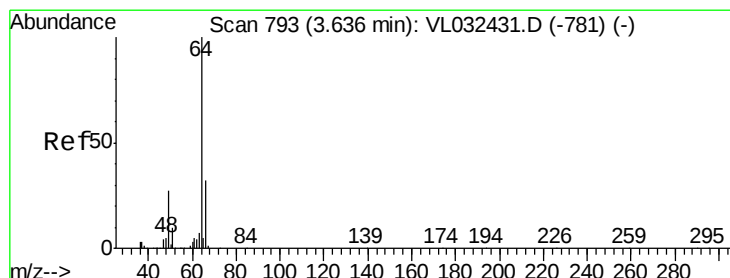
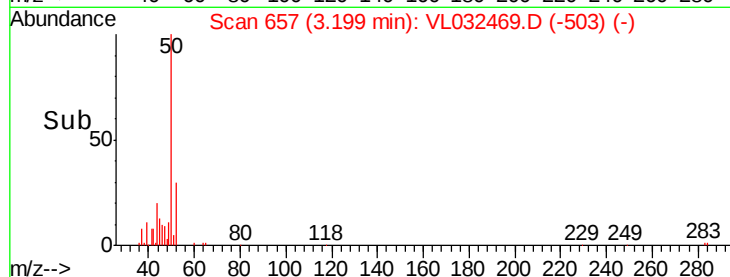
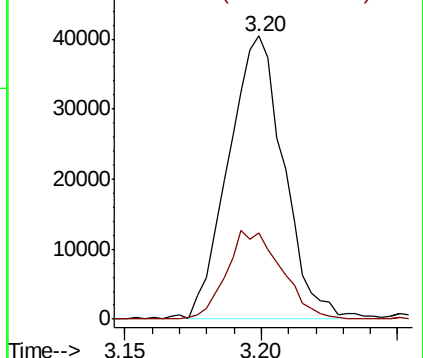
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#7

Chloroethane

Concen: 0.15 ppbv

RT: 3.63 min Scan# 792

Delta R.T. -0.00 min

Lab File: VL032469.D

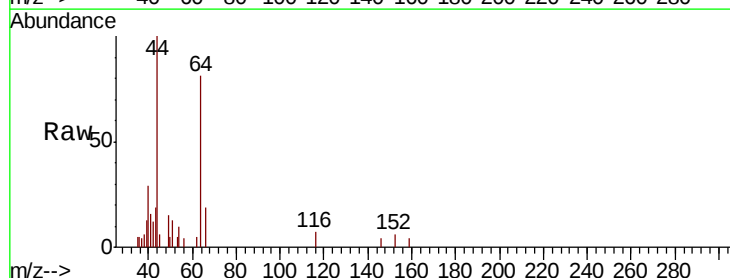
Acq: 5 Sep 2018 23:53

Tgt Ion: 64 Resp: 4533

Ion Ratio Lower Upper

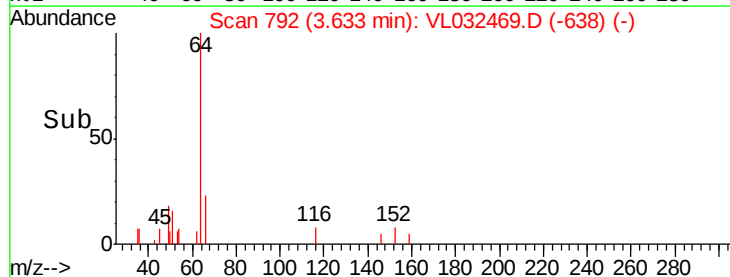
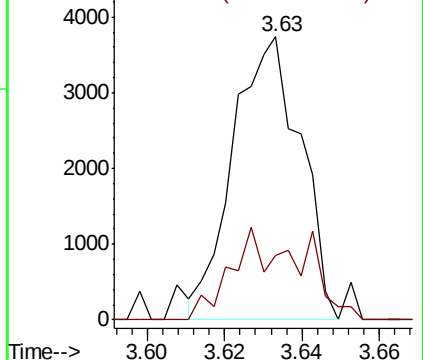
64 100

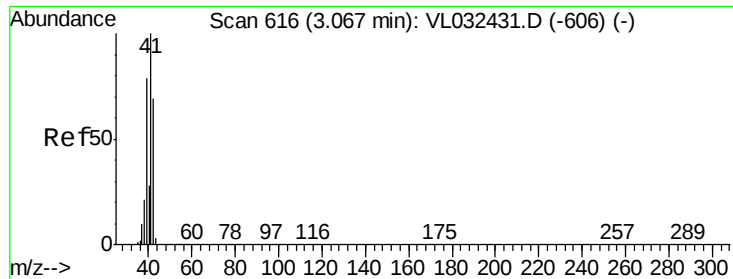
66 22.9 25.8 38.6#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





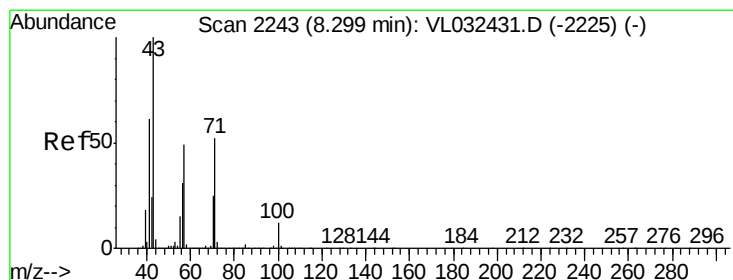
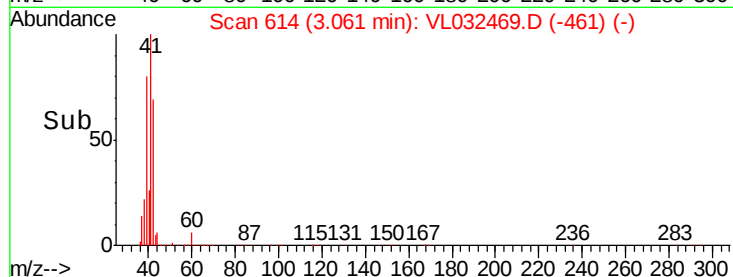
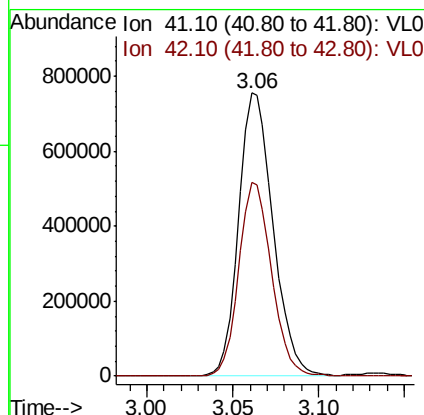
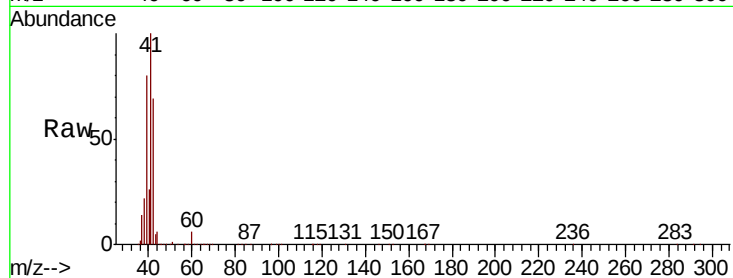
#9
 Propene
 Concen: 17.83 ppbv
 RT: 3.06 min Scan# 614
 Delta R.T. -0.01 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Instrument :
 MSVOA_L
 ClientSampled :
 VP-2

Tot Ion: 41 Resp: 1055285
 Ion Ratio Lower Upper
 41 100
 42 65.3 56.6 84.8

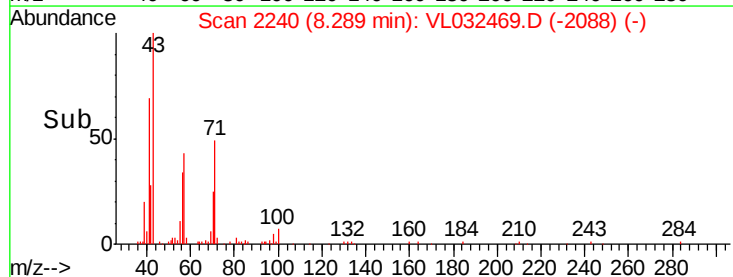
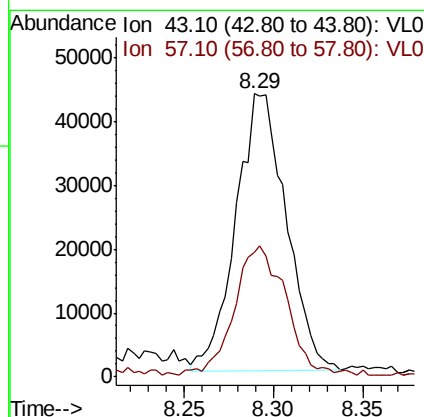
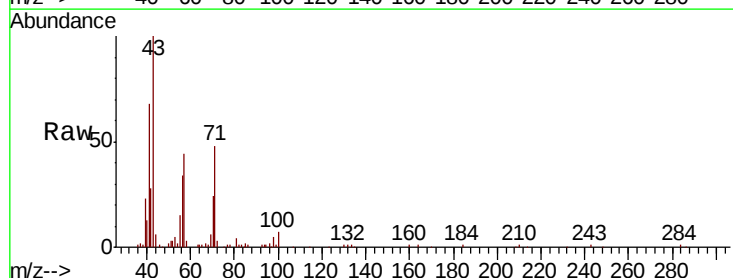
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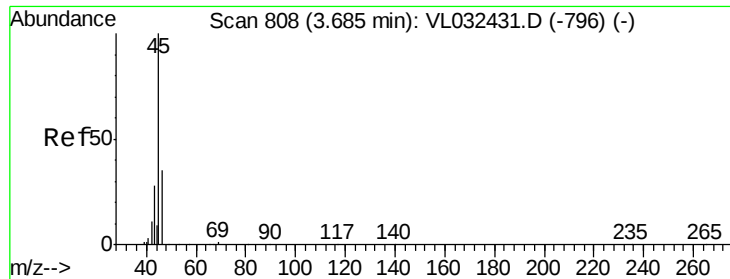
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#10
 Heptane
 Concen: 0.40 ppbv
 RT: 8.29 min Scan# 2240
 Delta R.T. -0.01 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Tgt Ion: 43 Resp: 85433
 Ion Ratio Lower Upper
 43 100
 57 50.9 39.6 59.4





#13

Ethanol

Concen: 27.75 ppbv

RT: 3.68 min Scan# 807

Delta R.T. -0.00 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampled :

VP-2

Tot Ion: 45 Resp: 511950

Ion Ratio Lower Upper

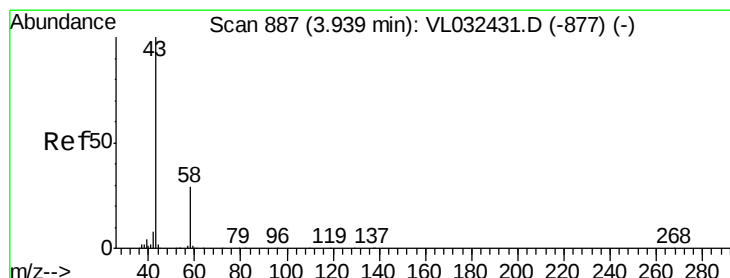
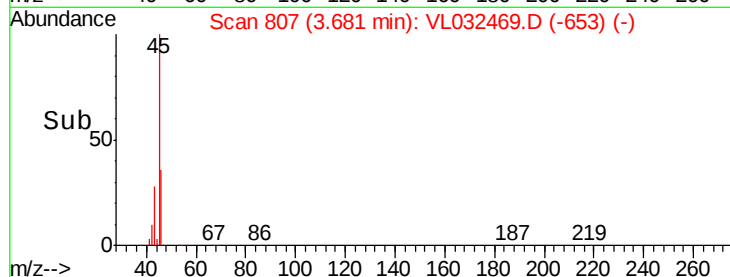
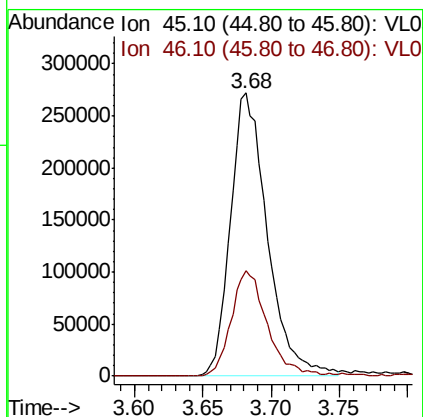
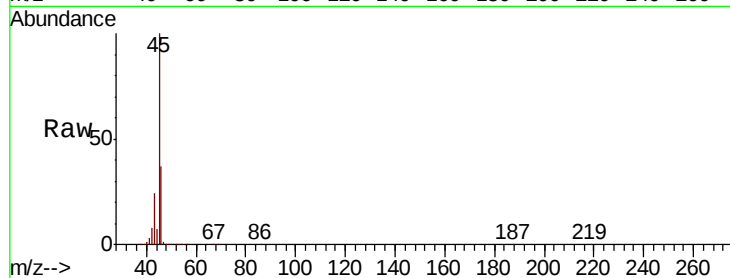
45 100

46 36.8 14.2 56.8

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#15

Acetone

Concen: 8.99 ppbv

RT: 3.93 min Scan# 884

Delta R.T. -0.01 min

Lab File: VL032469.D

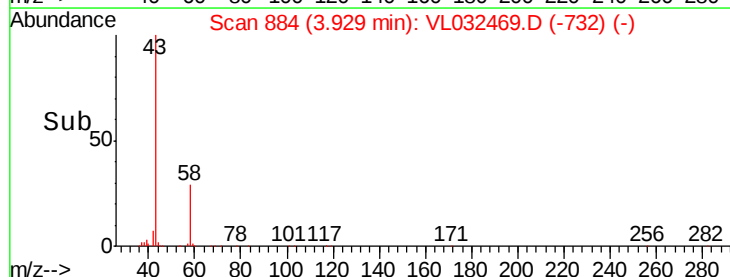
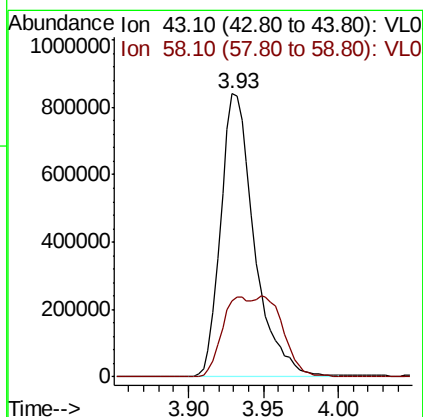
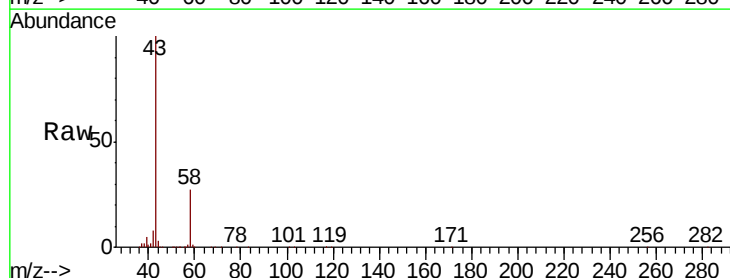
Acq: 5 Sep 2018 23:53

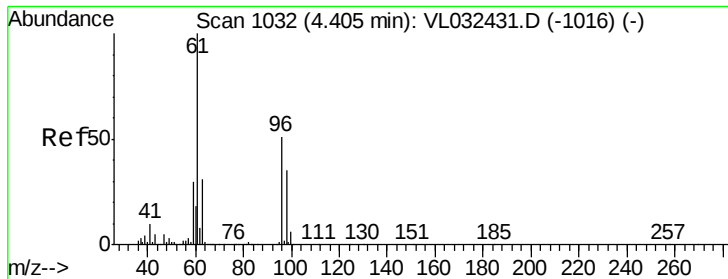
Tgt Ion: 43 Resp: 1311921

Ion Ratio Lower Upper

43 100

58 49.5 22.6 33.8#





#17

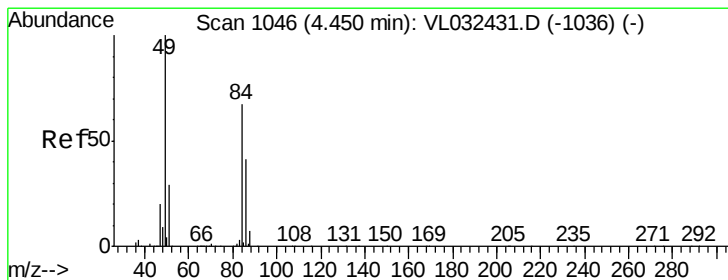
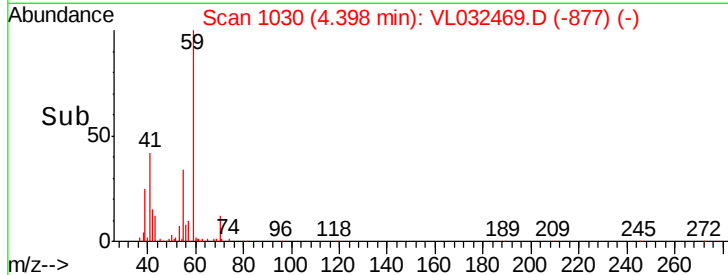
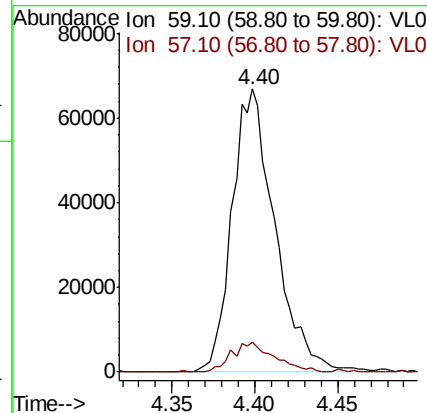
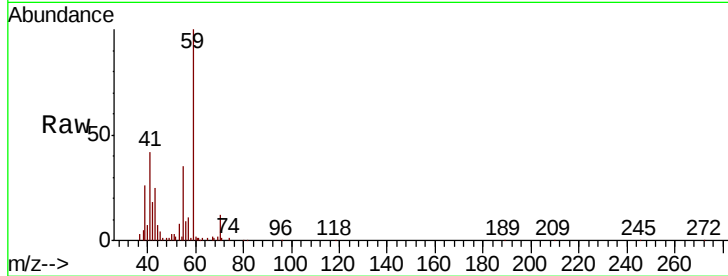
tert-Butyl alcohol
Concen: 5.32 ppbv
RT: 4.40 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Instrument :
MSVOA_L
ClientSampled :
VP-2

Tot Ion: 59 Resp: 119608
Ion Ratio Lower Upper
59 100
57 11.1 0.0 0.0#

Manual Integrations
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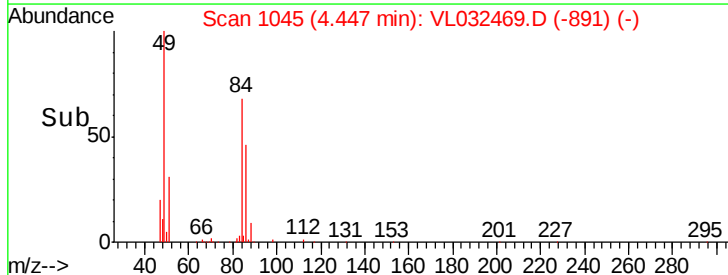
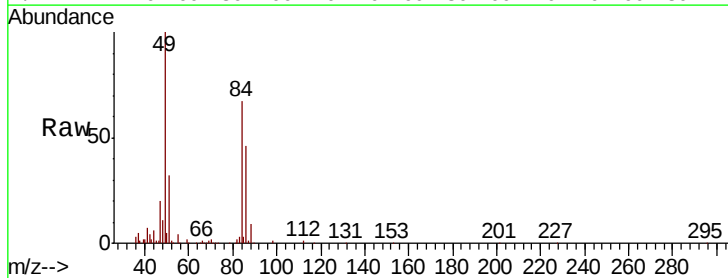
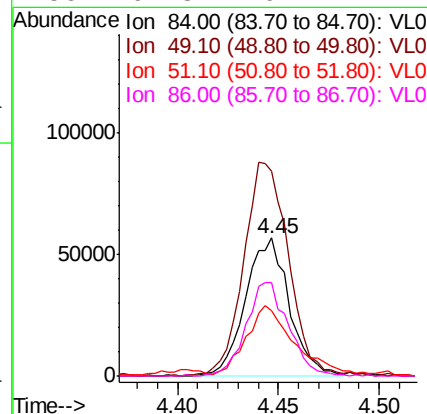
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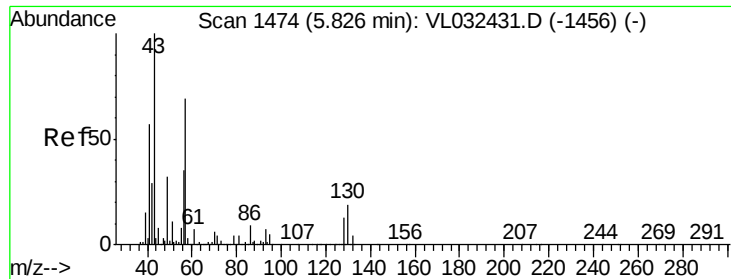


#20

Methylene Chloride
Concen: 1.54 ppbv
RT: 4.45 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Tgt Ion: 84 Resp: 85949
Ion Ratio Lower Upper
84 100
49 147.2 119.1 178.7
51 43.6 35.2 52.8
86 67.3 49.4 74.2





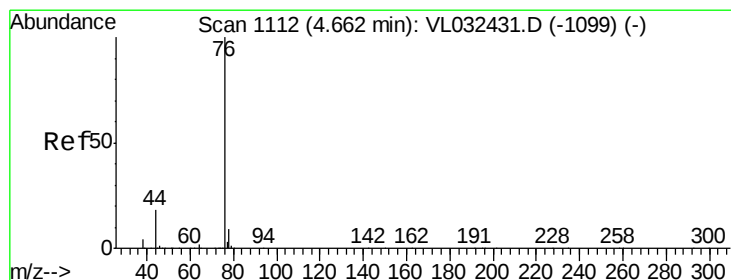
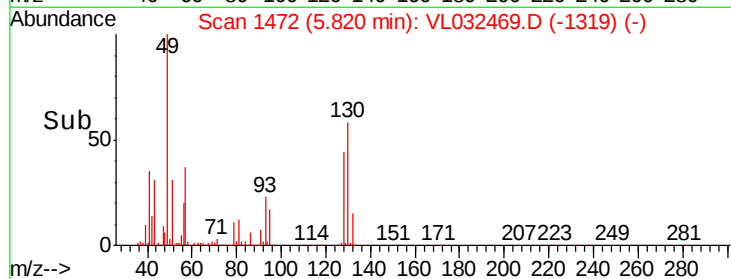
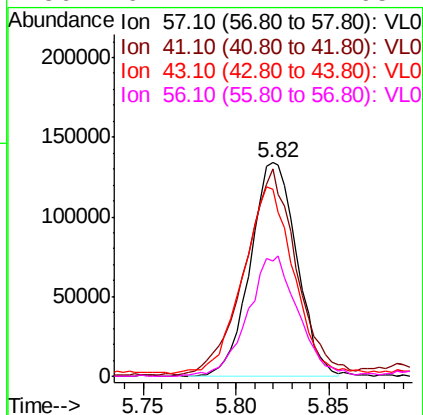
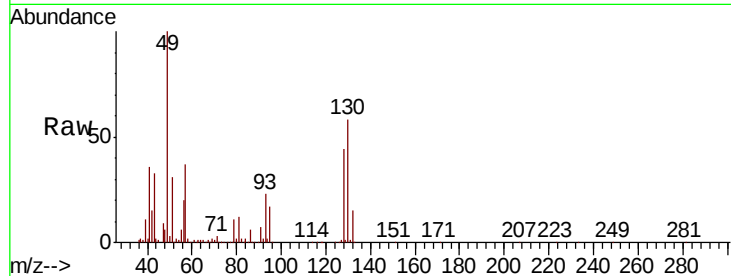
#26
Hexane
Concen: 1.51 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Instrument :
MSVOA_L
ClientSampleId :
VP-2

Tot Ion	Ratio	Lower	Upper
57	100		
41	107.5	69.0	103.4#
43	94.5	172.1	258.1#
56	61.2	42.2	63.2

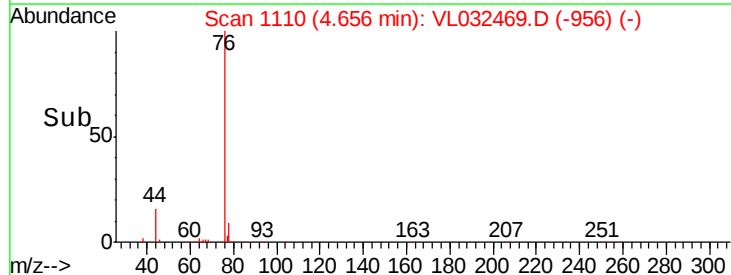
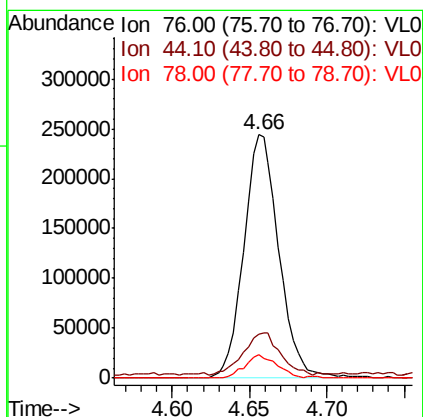
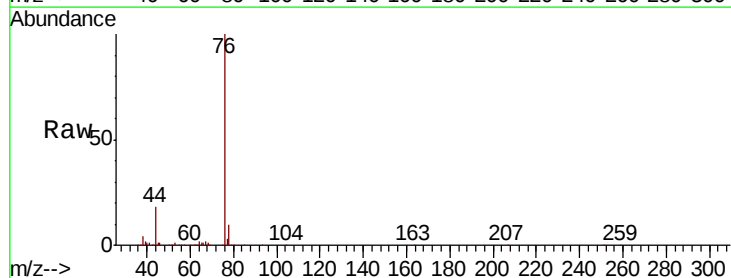
Manual Integrations
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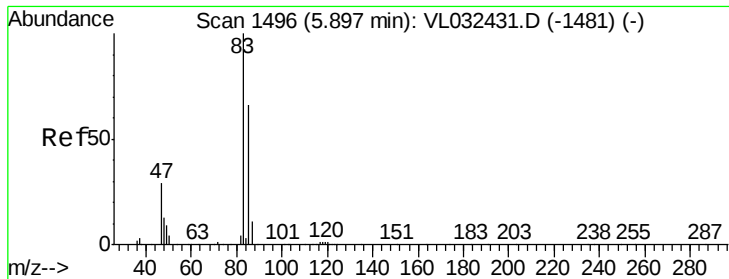
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#27
Carbon Disulfide
Concen: 2.69 ppbv
RT: 4.66 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Tgt Ion	Ratio	Lower	Upper
76	100		
44	19.0	14.0	21.0
78	9.1	7.5	11.3





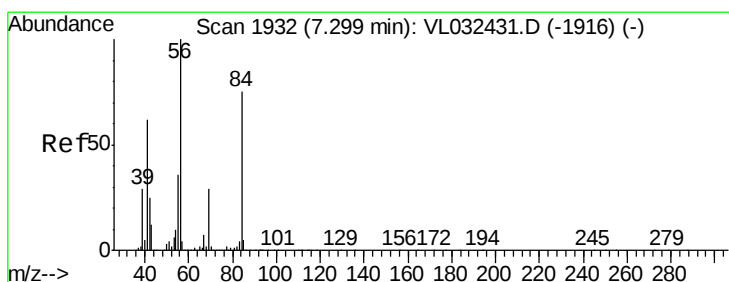
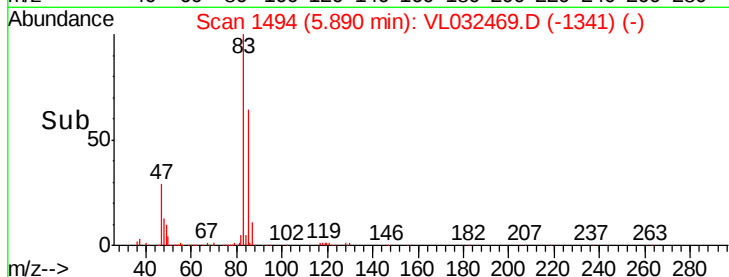
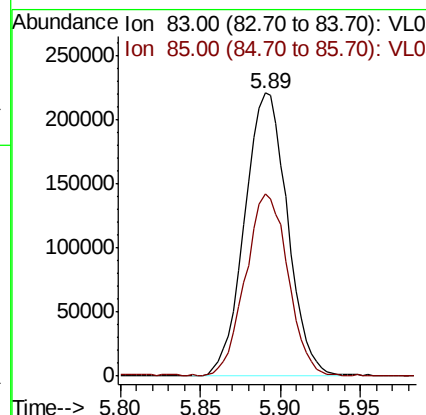
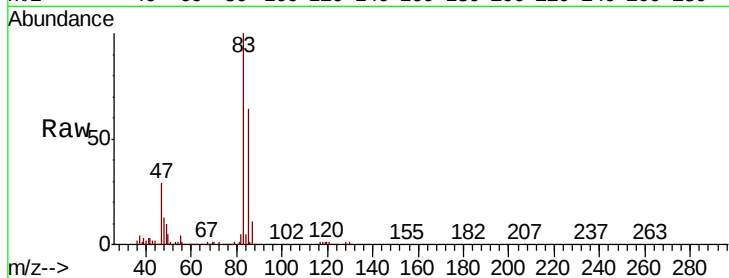
#29
Chloroform
Concen: 1.71 ppbv
RT: 5.89 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Instrument :
MSVOA_L
Client Sampled :
VP-2

Tot Ion	83	Resp	402824
Ion Ratio	Lower	Upper	
83	100		
85	64.1	52.5	78.7

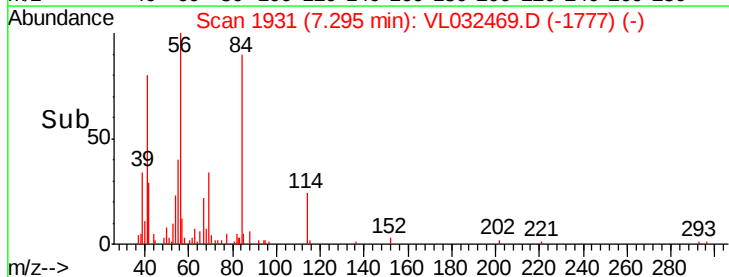
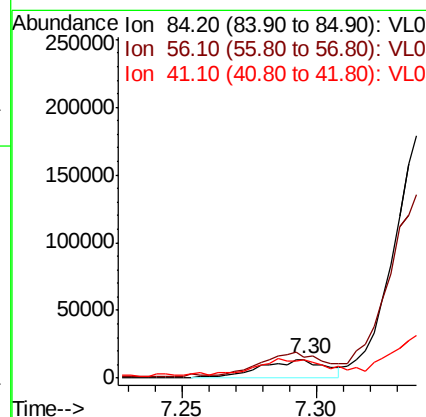
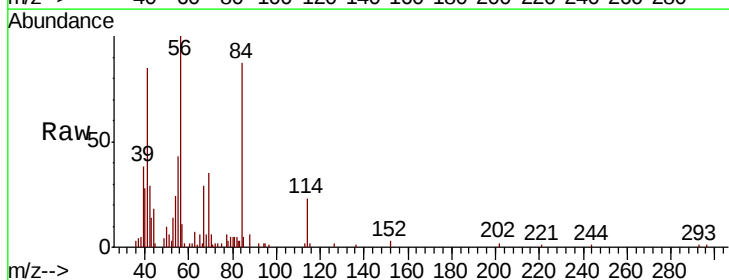
Manual Integrations
APPROVED

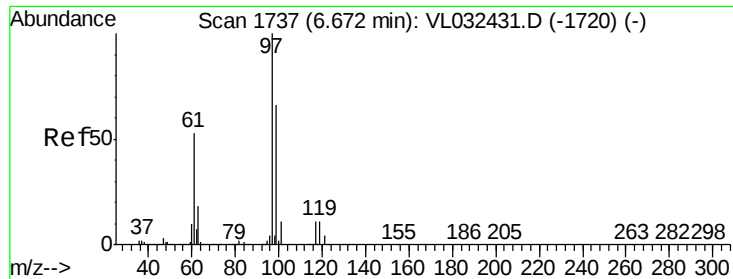
MMDadoda
9/7/2018 10:46:03 AM



#30
Cyclohexane
Concen: 0.21 ppbv m
RT: 7.30 min Scan# 1931
Delta R.T. -0.00 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Tgt Ion	84	Resp	23247
Ion Ratio	Lower	Upper	
84	100		
56	0.0	113.5	170.3#
41	0.0	68.1	102.1#





#32

1,1,1-Trichloroethane

Concen: 0.54 ppbv m

RT: 6.67 min Scan# 1735

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

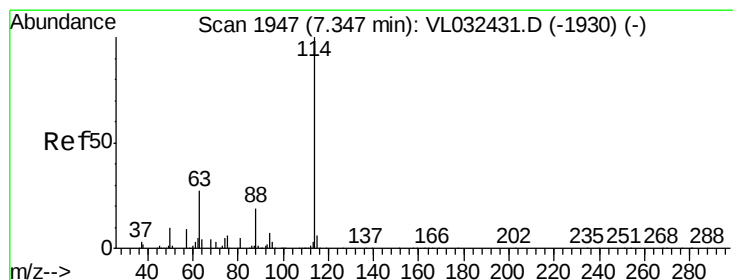
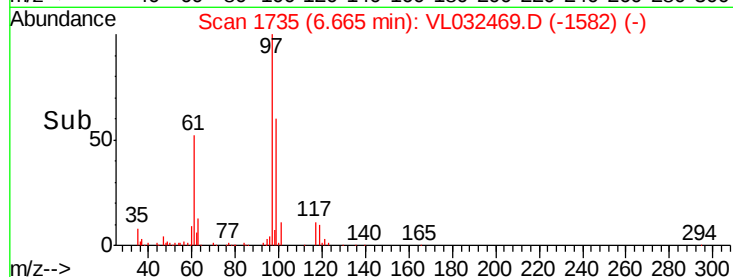
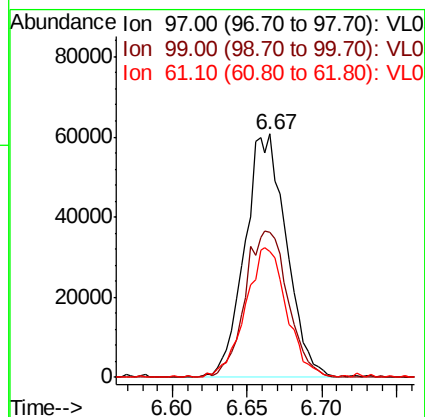
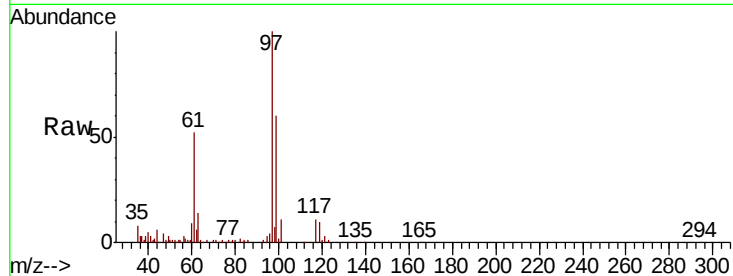
ClientSampleId :

VP-2

Tot Ion:	97	Resp:	117407
Ion	Ratio	Lower	Upper
97	100		
99	62.2	52.1	78.1
61	53.1	42.5	63.7

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

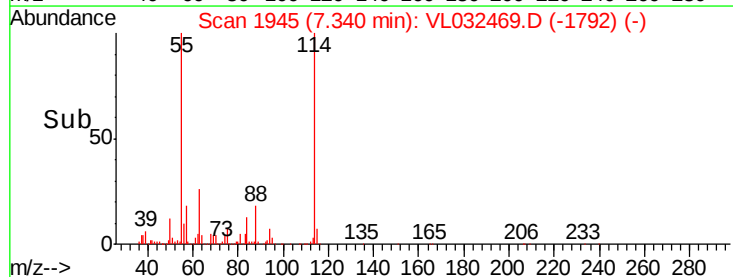
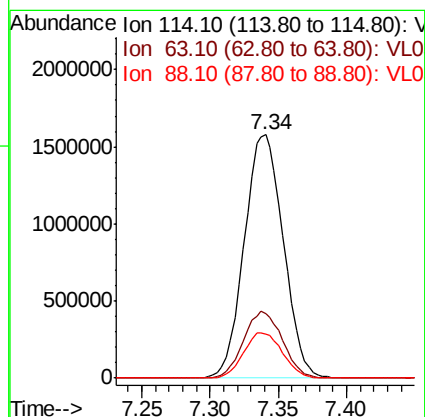
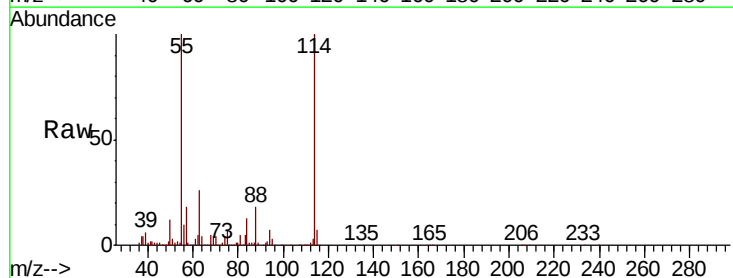
RT: 7.34 min Scan# 1945

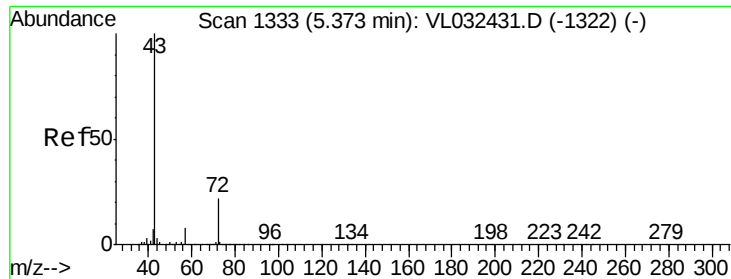
Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Tgt Ion:	114	Resp:	3134295
Ion	Ratio	Lower	Upper
114	100		
63	27.2	22.2	33.4
88	18.6	15.0	22.4





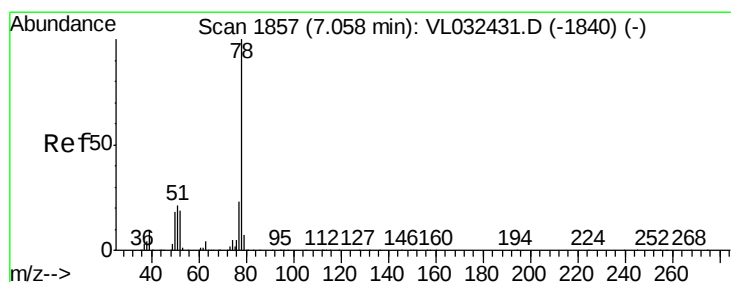
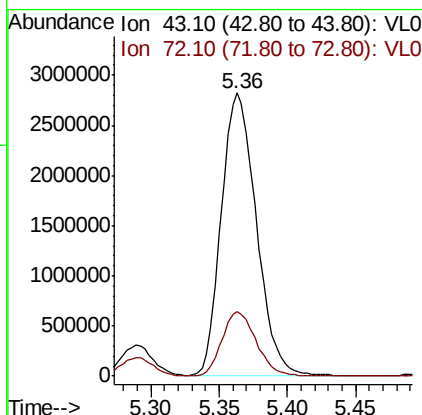
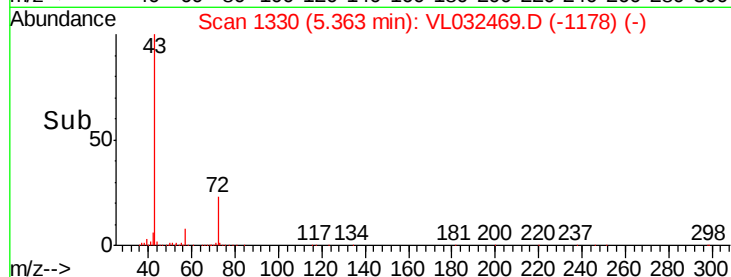
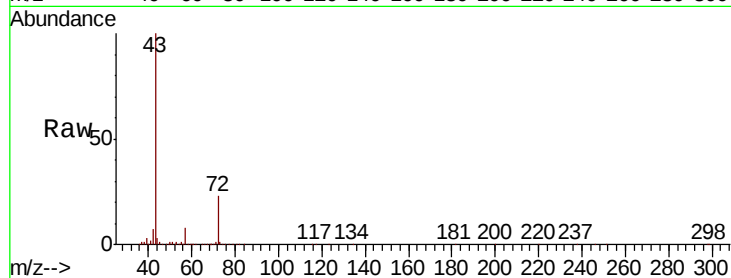
#34
2-Butanone
Concen: 24.07 ppbv
RT: 5.36 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Instrument :
MSVOA_L
ClientSampleId :
VP-2

Tot Ion: 43 Resp: 5010966
Ion Ratio Lower Upper
43 100
72 22.4 17.8 26.6

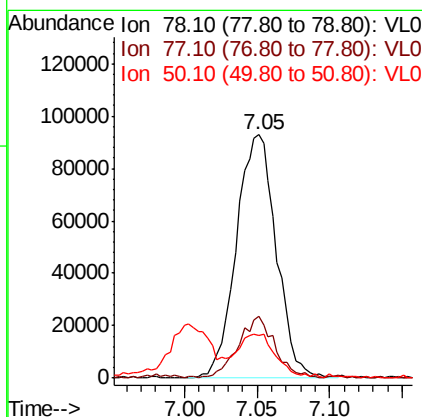
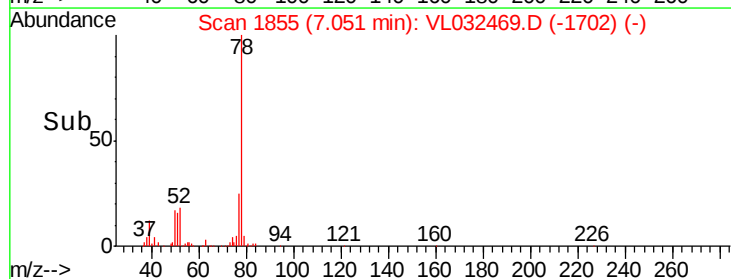
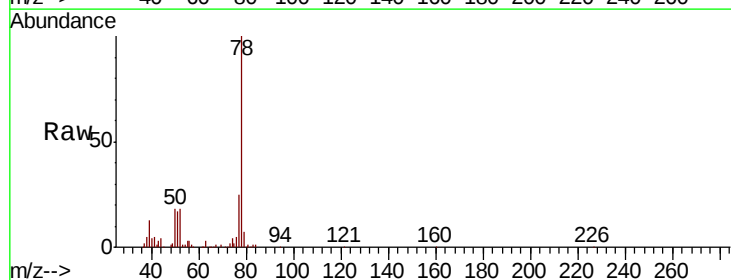
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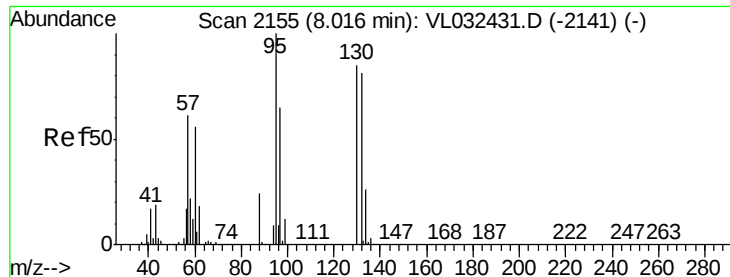
MMDadoda
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#36
Benzene
Concen: 0.67 ppbv
RT: 7.05 min Scan# 1855
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Tgt Ion: 78 Resp: 177825
Ion Ratio Lower Upper
78 100
77 24.4 18.4 27.6
50 17.0 14.4 21.6





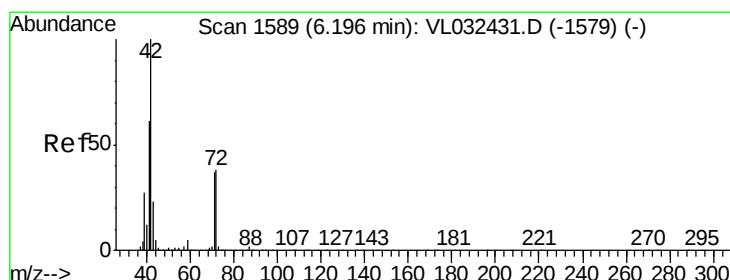
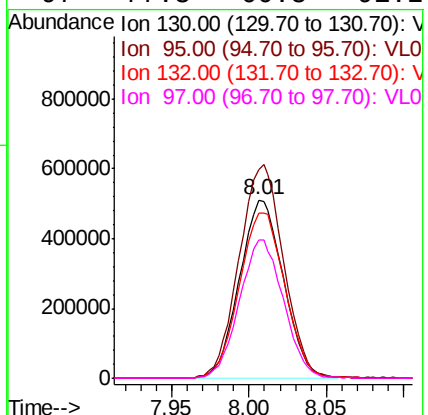
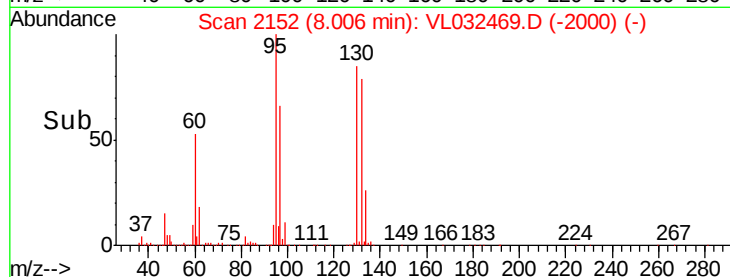
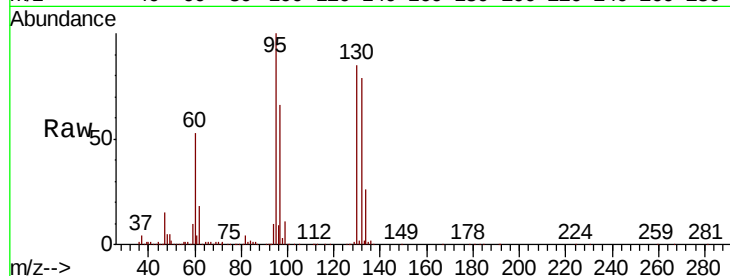
#38
 Trichloroethene
 Concen: 9.95 ppbv
 RT: 8.01 min Scan# 2152
 Delta R.T. -0.01 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-2

Tot Ion	Ion	Ratio	Lower	Upper
130	100			
95	117.2	94.2	141.4	
132	92.9	76.2	114.4	
97	77.3	60.8	91.2	

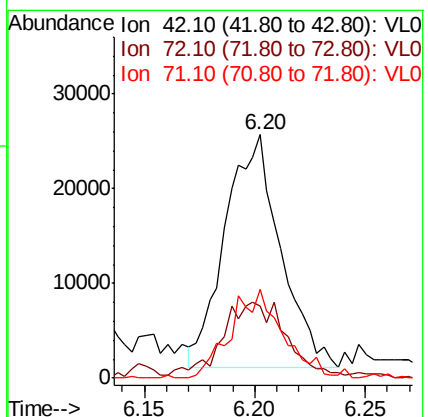
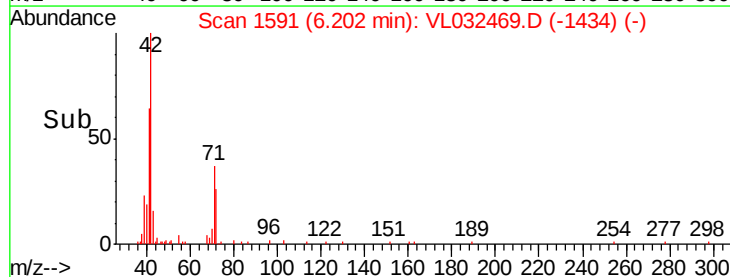
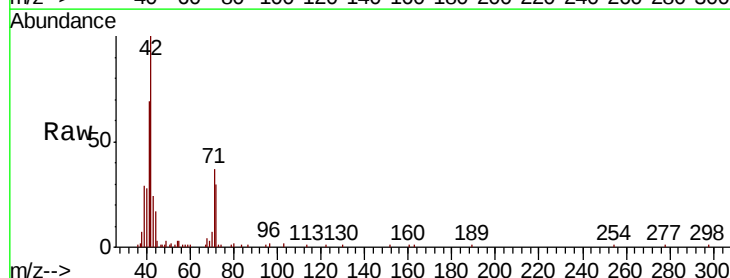
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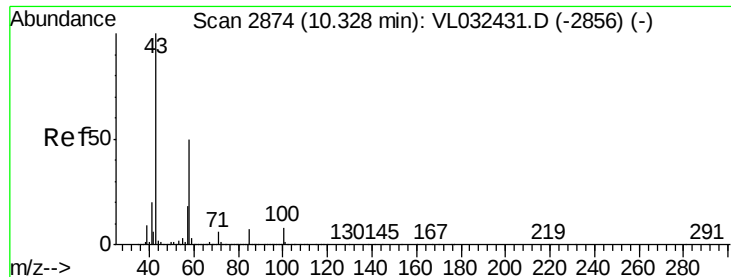
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 9/7/2018 10:46:03 AM



#41
 Tetrahydrofuran
 Concen: 0.38 ppbv
 RT: 6.20 min Scan# 1591
 Delta R.T. 0.01 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Tgt Ion	Ion	Ratio	Lower	Upper
42	100			
72	43.4	29.5	44.3	
71	37.0	28.3	42.5	





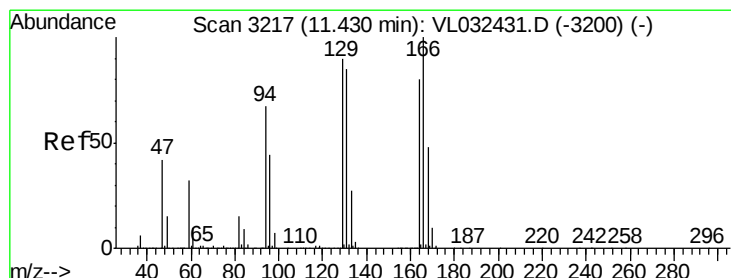
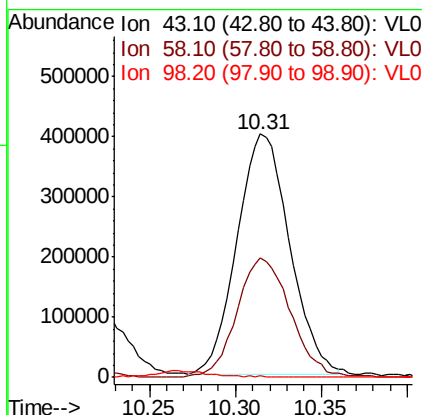
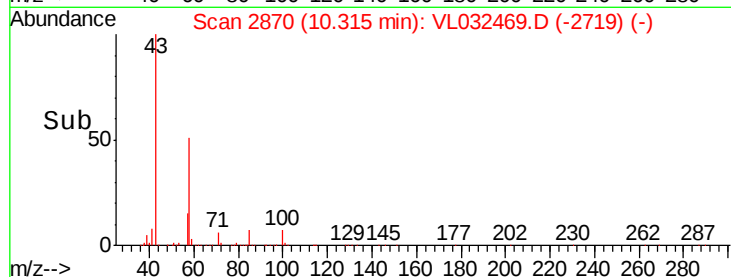
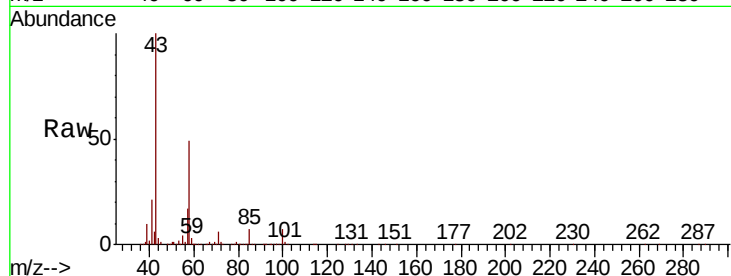
#51
2-Hexanone
Concen: 4.19 ppbv
RT: 10.31 min Scan# 2870
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Instrument :
MSVOA_L
ClientSampled :
VP-2

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.6	39.2	58.8
98	3.4	0.4	0.6#

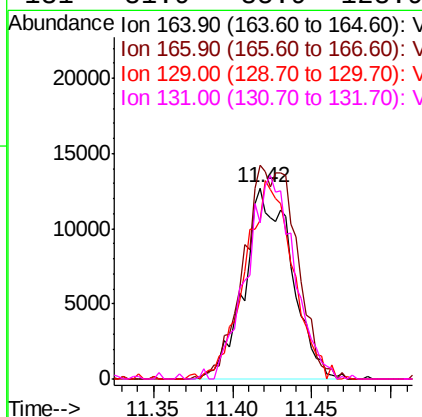
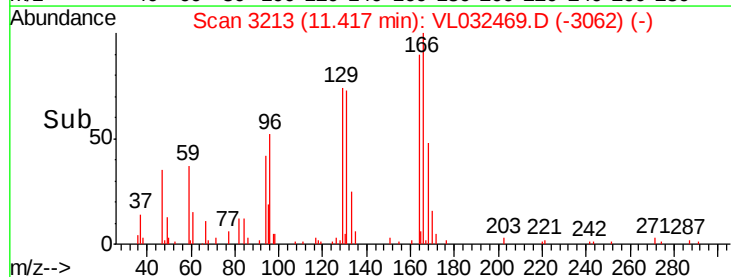
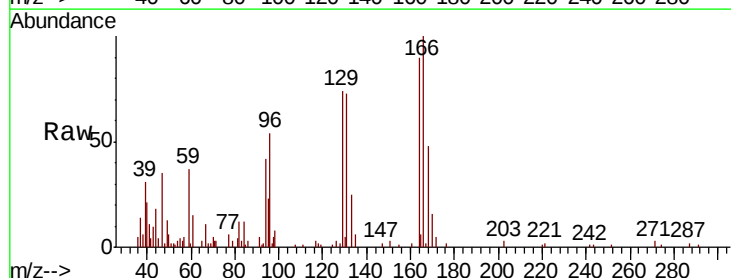
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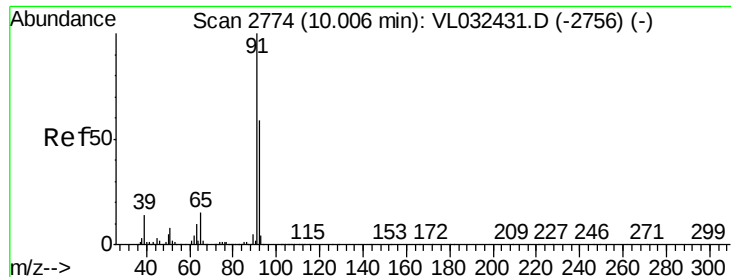
MMDadoda
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#52
Tetrachloroethene
Concen: 0.32 ppbv m
RT: 11.42 min Scan# 3213
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	111.6	100.6	150.8
129	82.8	89.9	134.9#
131	81.9	85.9	128.9#





#53

Toluene

Concen: 1.08 ppbv

RT: 9.99 min Scan# 2770

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampled :

VP-2

Tot Ion: 91 Resp: 300175

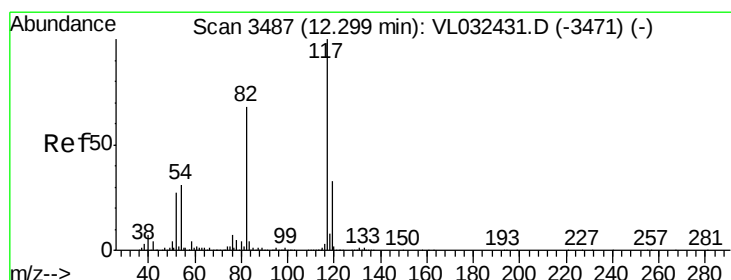
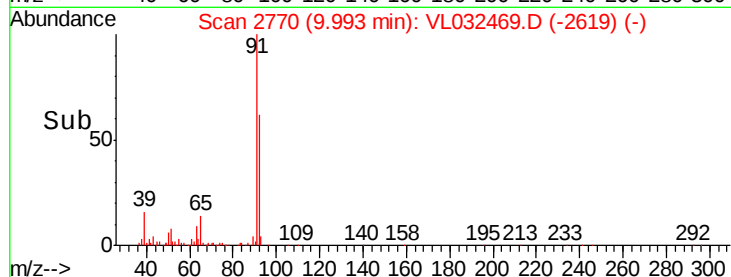
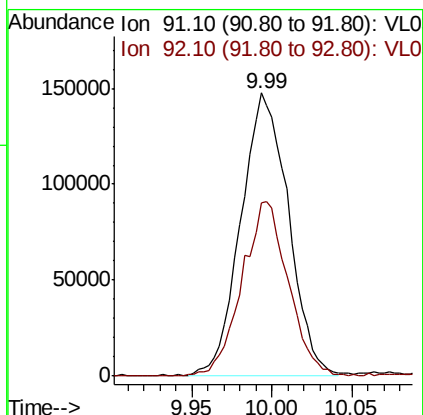
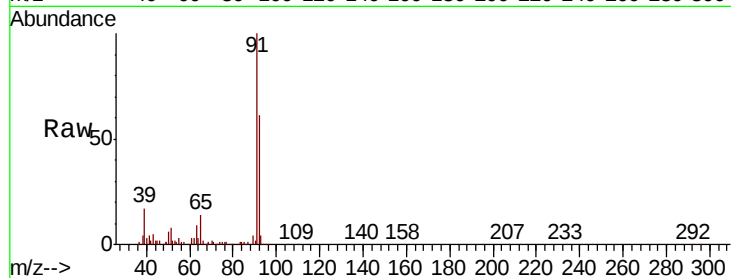
Ion Ratio Lower Upper

91 100

92 60.0 48.1 72.1

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.29 min Scan# 3485

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

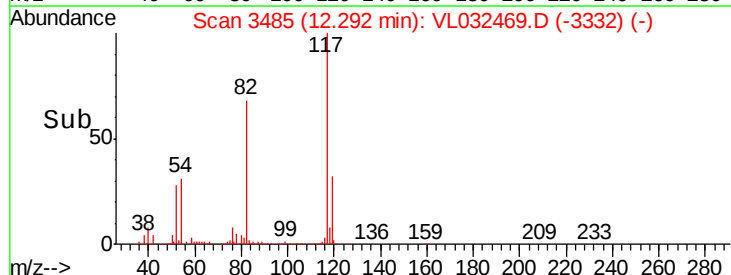
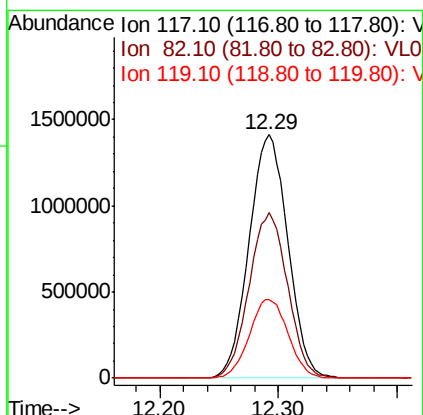
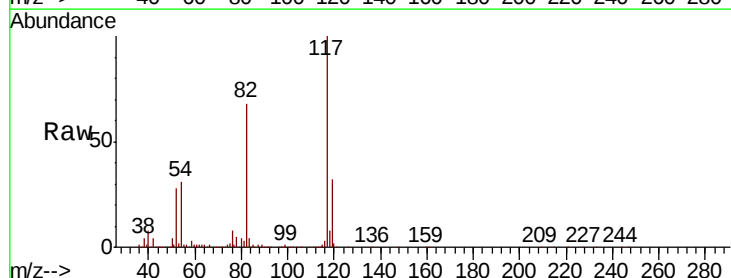
Tgt Ion: 117 Resp: 3187859

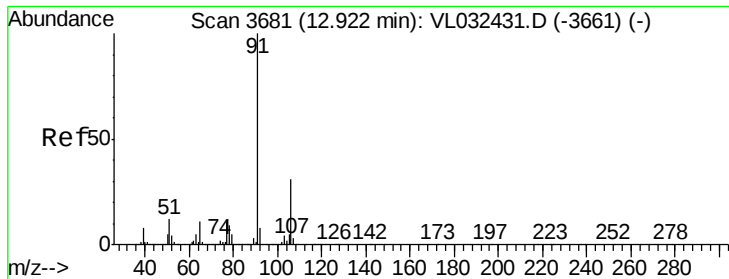
Ion Ratio Lower Upper

117 100

82 68.1 53.0 79.6

119 32.4 45.9 68.9#





#58

Ethyl Benzene

Concen: 0.15 ppbv

RT: 12.92 min Scan# 3679

Delta R.T. -0.01 min

Lab File: VL032469.D

Acq: 5 Sep 2018 23:53

Instrument :

MSVOA_L

ClientSampled :

VP-2

Tot Ion: 91 Resp: 56143

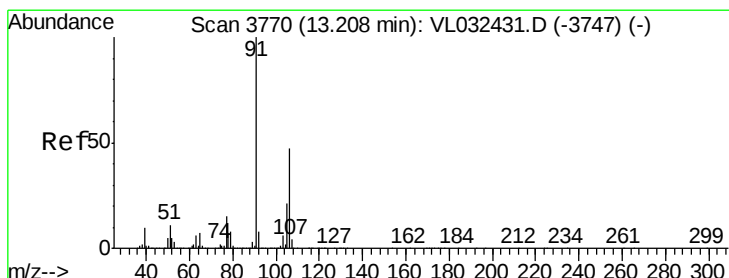
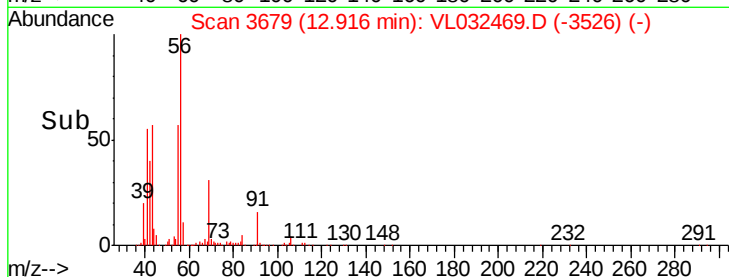
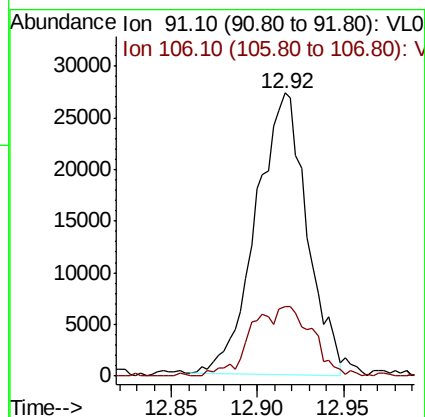
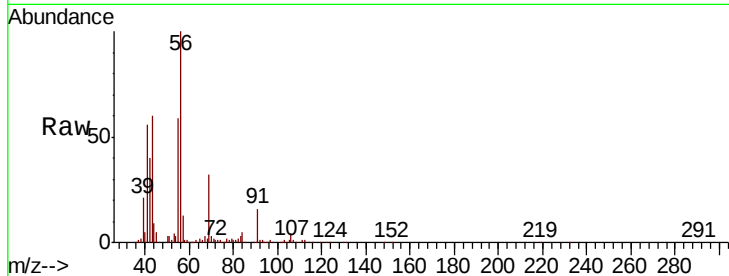
Ion Ratio Lower Upper

91 100

106 25.1 24.8 37.2

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#59

m/p-Xylene

Concen: 0.39 ppbv m

RT: 13.18 min Scan# 3760

Delta R.T. -0.03 min

Lab File: VL032469.D

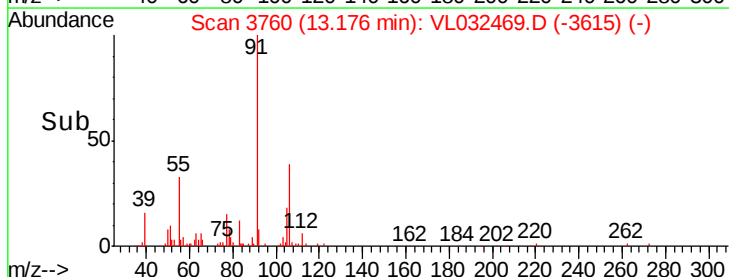
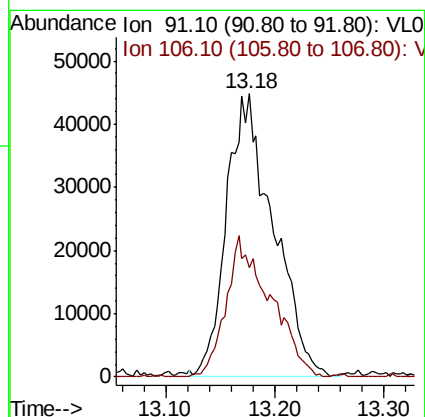
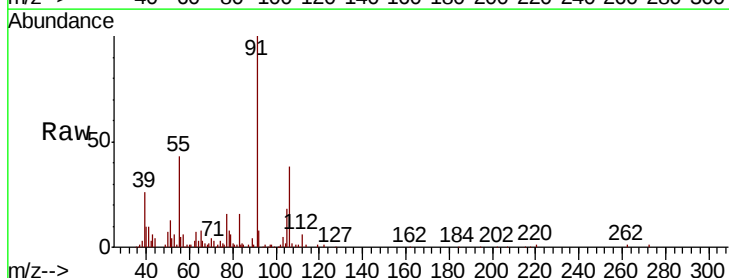
Acq: 5 Sep 2018 23:53

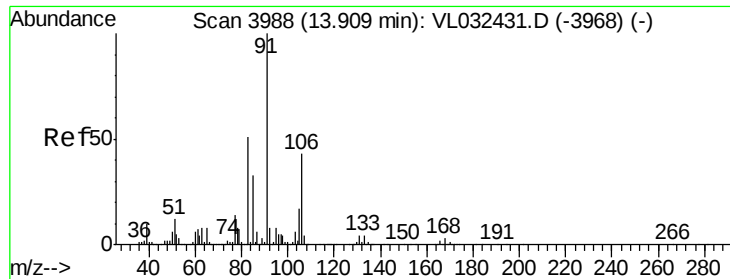
Tgt Ion: 91 Resp: 133008

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#





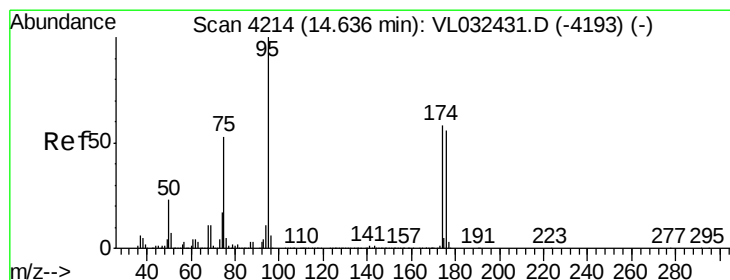
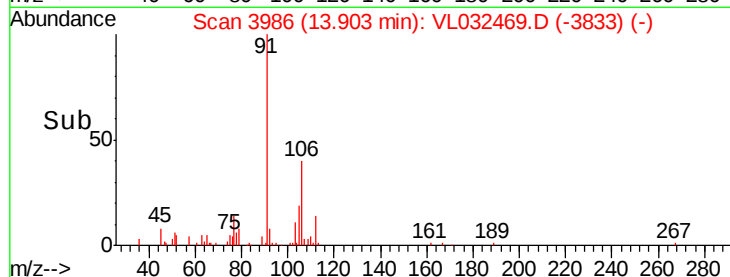
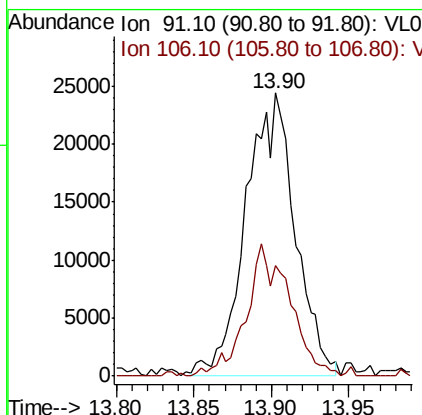
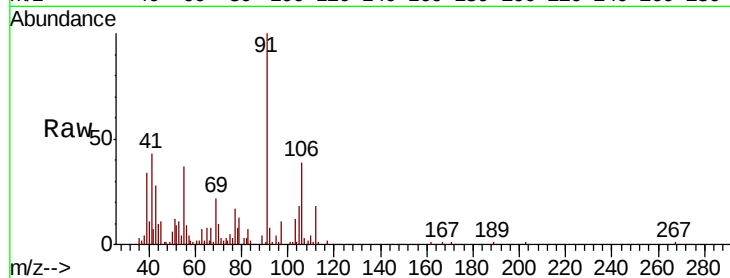
#60
o-Xylene
Concen: 0.16 ppbv m
RT: 13.90 min Scan# 3986
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Instrument :
MSVOA_L
ClientSampled :
VP-2

Tot Ion: 91 Resp: 54082
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.7#

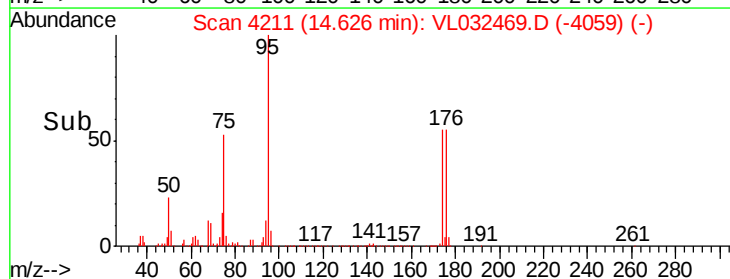
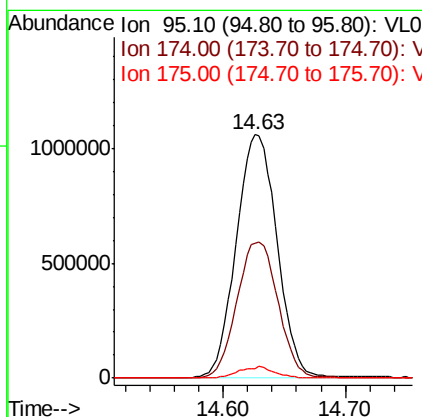
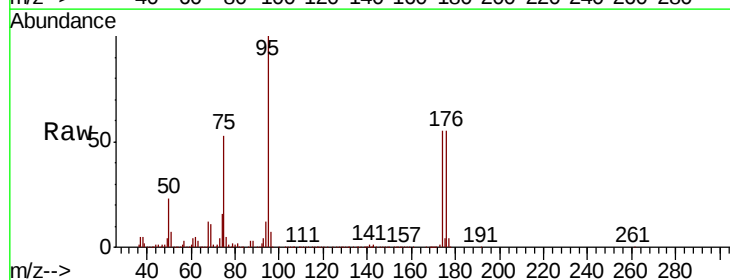
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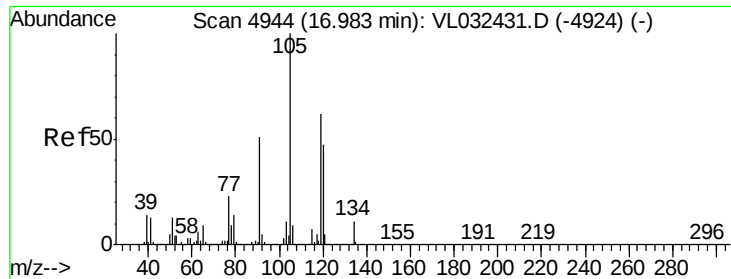
MMDadoda
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.37 ppbv
RT: 14.63 min Scan# 4211
Delta R.T. -0.01 min
Lab File: VL032469.D
Acq: 5 Sep 2018 23:53

Tgt Ion: 95 Resp: 2454774
Ion Ratio Lower Upper
95 100
174 56.8 46.3 69.5
175 4.2 3.4 5.0





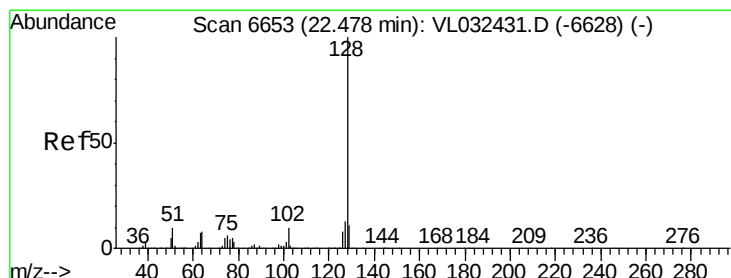
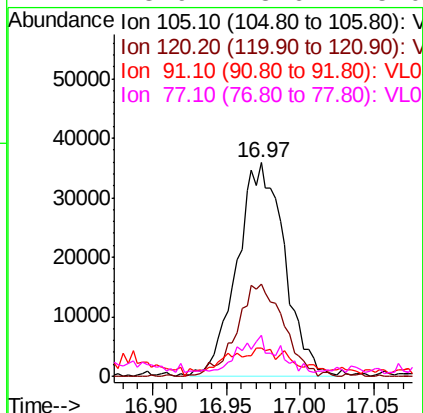
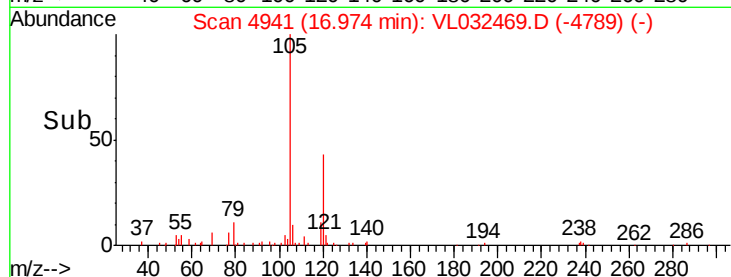
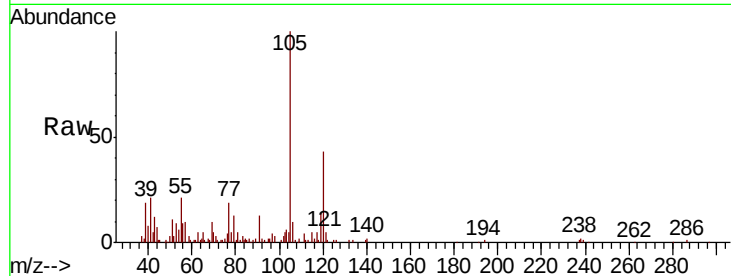
#74
 1,2,4-Trimethylbenzene
 Concen: 0.20 ppbv m
 RT: 16.97 min Scan# 4941
 Delta R.T. -0.01 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Instrument :
 MSVOA_L
 ClientSampled :
 VP-2

Tot Ion	Ratio	Lower	Upper
105	100		
120	43.4	37.8	56.8
91	13.0	41.4	62.0#
77	18.9	18.6	28.0

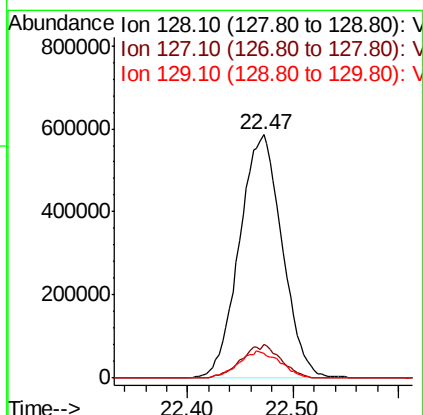
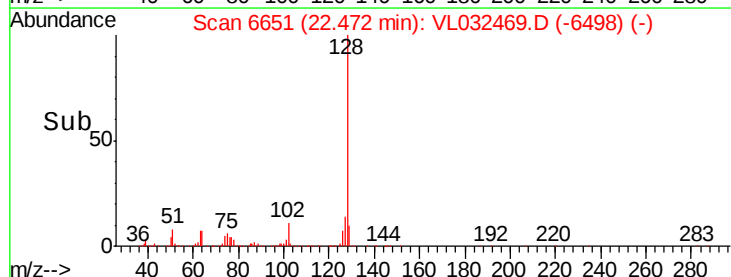
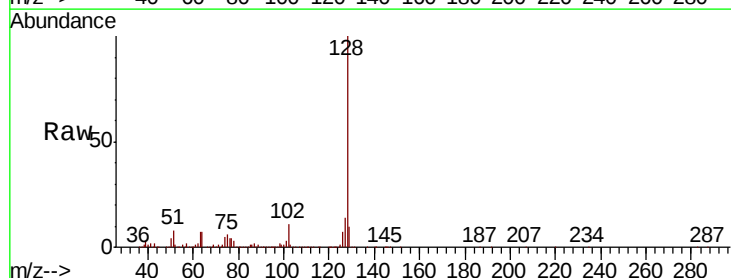
Manual Integrations
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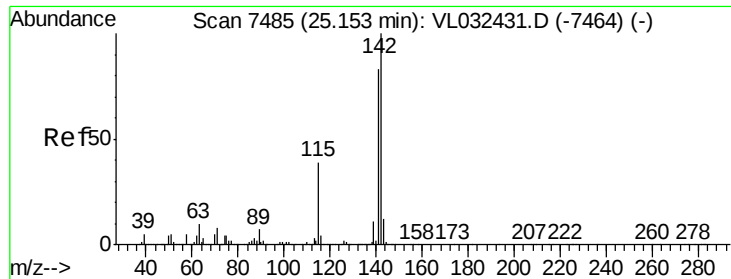
MMDadoda
 9/7/2018 10:46:03 AM



#79
 Naphthalene
 Concen: 5.08 ppbv
 RT: 22.47 min Scan# 6651
 Delta R.T. -0.01 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.2	15.2
129	10.3	8.5	12.7





#80
 Naphthalene, 2-methyl-
 Concen: 6.72 ppbv
 RT: 25.15 min Scan# 7484
 Delta R.T. -0.00 min
 Lab File: VL032469.D
 Acq: 5 Sep 2018 23:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-2

Tot Ion:	142	Resp:	580482
Ion Ratio	Lower	Upper	
142	100		
141	83.9	67.0	100.6
115	40.9	31.3	46.9

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 10:46:03 AM

