

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052919\
 Data File : VL033866.D
 Acq On : 30 May 2019 11:46
 Operator : SY/AP
 Sample : K3007-02DL DUP 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG-2DL DUP

Manual Integrations
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Quant Time: May 31 07:54:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	779694	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1847105	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1893287	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.56	95	1525479	9.94	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.04	41	199282	5.246	ppbv	84
10) Heptane	8.24	43	157248	1.462	ppbv	97
13) Ethanol	3.64	45	412559	33.601	ppbv	97
15) Acetone	3.89	43	1423997m	13.163	ppbv	
17) tert-Butyl alcohol	4.36	59	26117	0.299	ppbv #	72
26) Hexane	5.77	57	439912	5.385	ppbv #	39
27) Carbon Disulfide	4.62	76	36254	0.323	ppbv #	74
28) Methyl tert-Butyl Ether	5.11	73	81689	0.613	ppbv	96
30) Cyclohexane	7.25	84	20221m	0.294	ppbv	
34) 2-Butanone	5.32	43	87668m	0.766	ppbv	
36) Benzene	6.99	78	181932	1.083	ppbv	97
44) 2,2,4-Trimethylpentane	7.98	57	2027299	7.139	ppbv	96
51) 2-Hexanone	10.24	43	96071	0.699	ppbv #	29
52) Tetrachloroethene	11.37	164	37361m	0.633	ppbv	
53) Toluene	9.94	91	164860	0.910	ppbv	99
59) m/p-Xylene	13.11	91	51897m	0.237	ppbv	

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

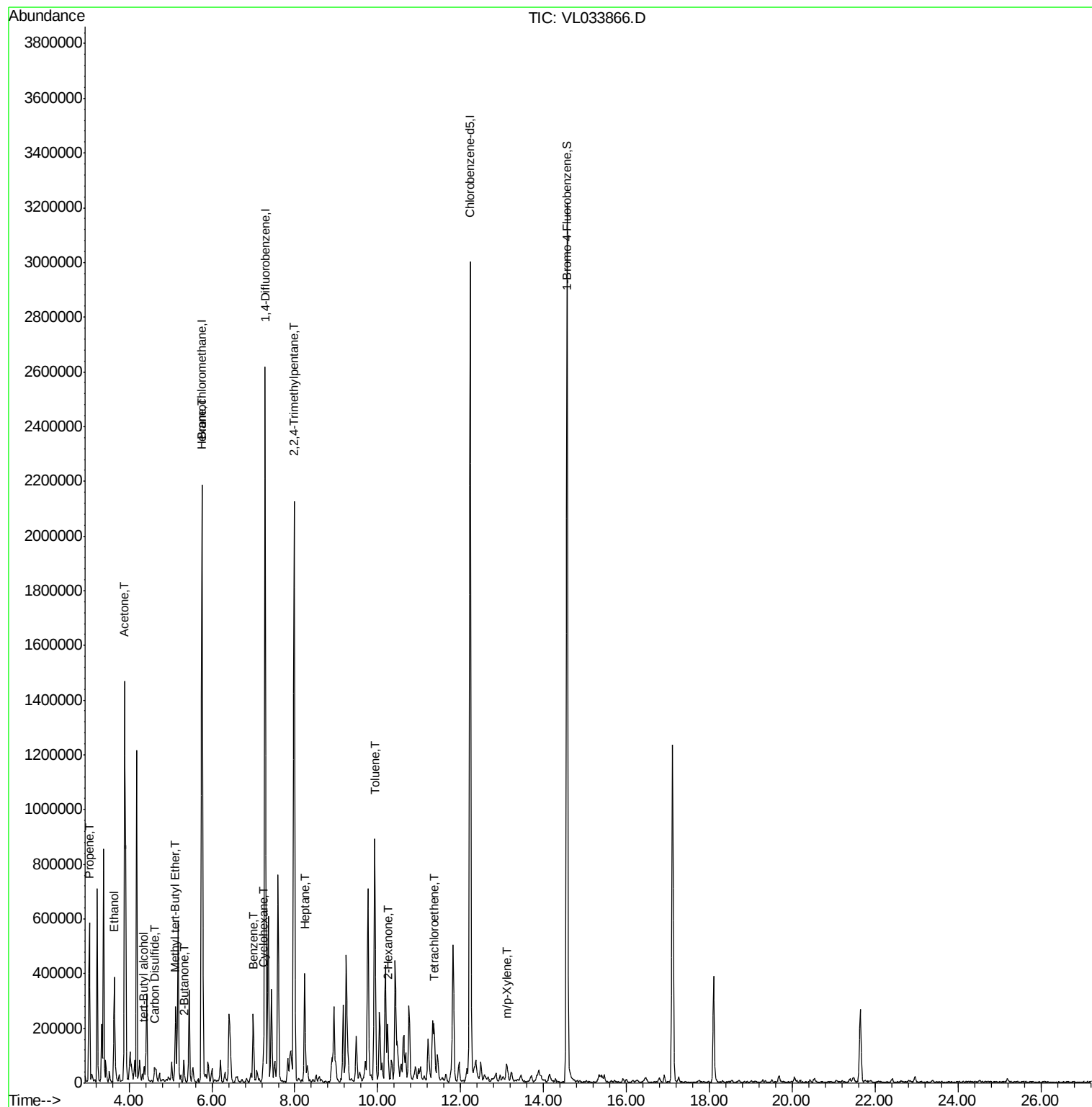
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052919\
Data File : VL033866.D
Acq On : 30 May 2019 11:46
Operator : SY/AP
Sample : K3007-02DLDUP 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

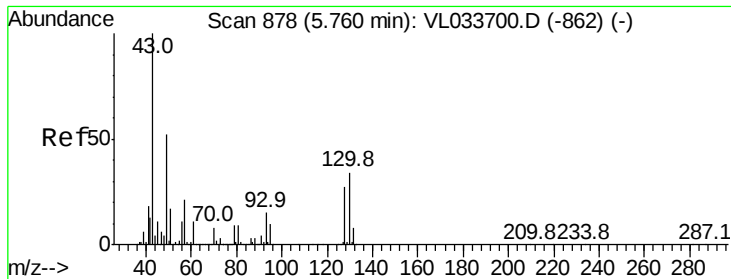
Instrument :
MSVOA_L
ClientSampleId :
SSG-2DLDUP

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Quant Time: May 31 07:54:36 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.01 min

Lab File: VL033866.D

Acq: 30 May 2019 11:46

Instrument :

MSVOA_L

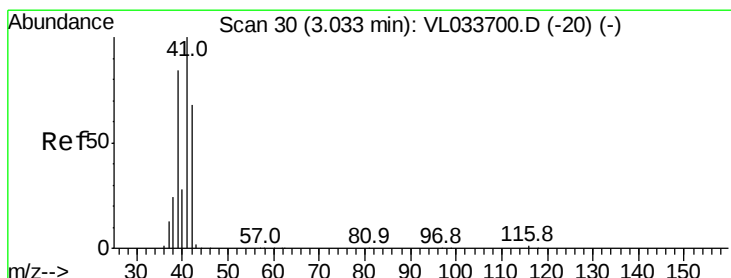
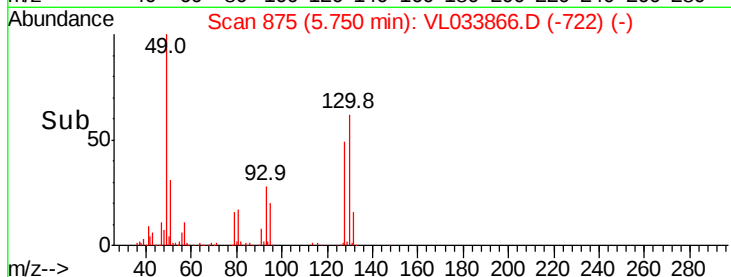
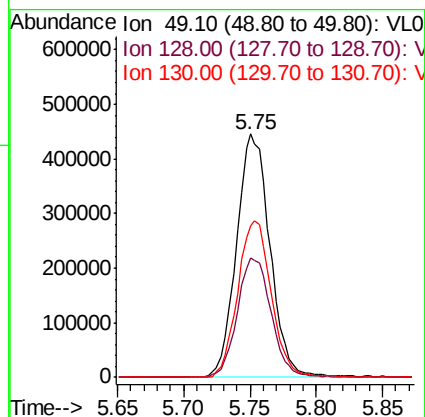
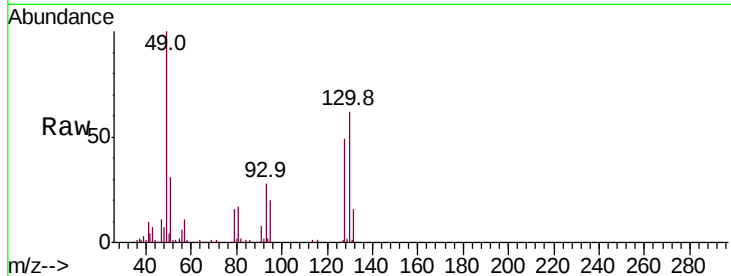
ClientSampleId :

SSG-2DLDUP

Tot Ion:	49	Resp:	779694
Ion Ratio	Lower	Upper	
49	100		
128	49.9	25.2	75.6
130	65.4	32.5	97.5

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#9

Propene

Concen: 5.246 ppbv

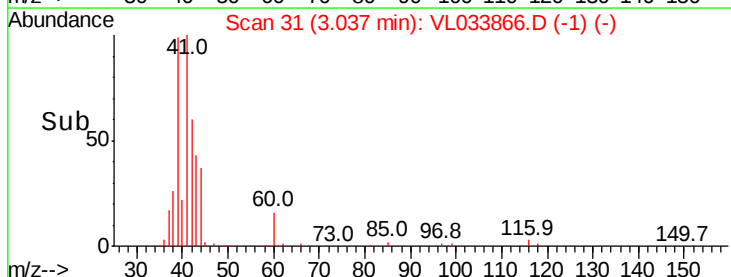
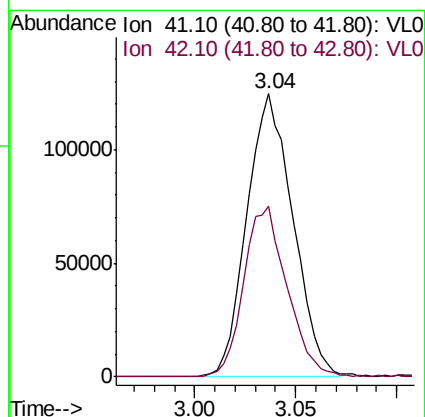
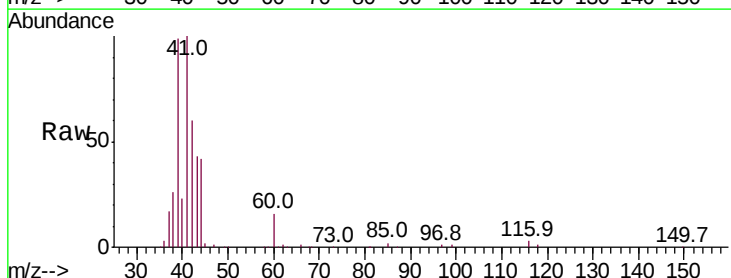
RT: 3.04 min Scan# 31

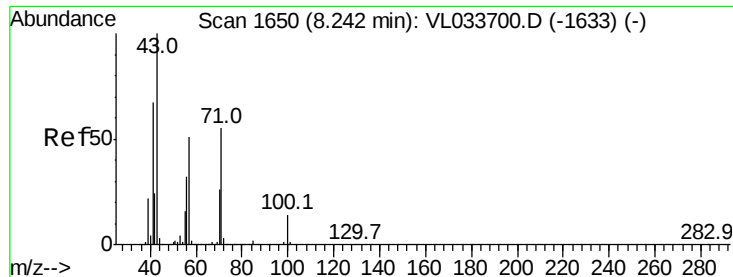
Delta R.T. 0.00 min

Lab File: VL033866.D

Acq: 30 May 2019 11:46

Tgt Ion:	41	Resp:	199282
Ion Ratio	Lower	Upper	
41	100		
42	56.8	56.1	84.1





#10

Heptane

Concen: 1.462 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VL033866.D

Acq: 30 May 2019 11:46

Instrument :

MSVOA_L

ClientSampleId :

SSG-2DLDUP

Tot Ion: 43 Resp: 157248

Ion Ratio Lower Upper

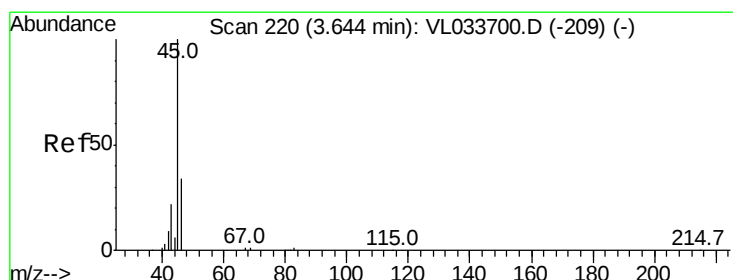
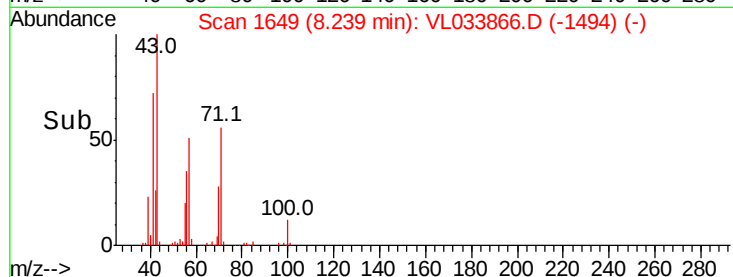
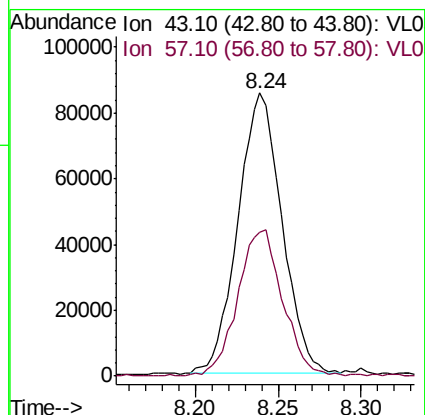
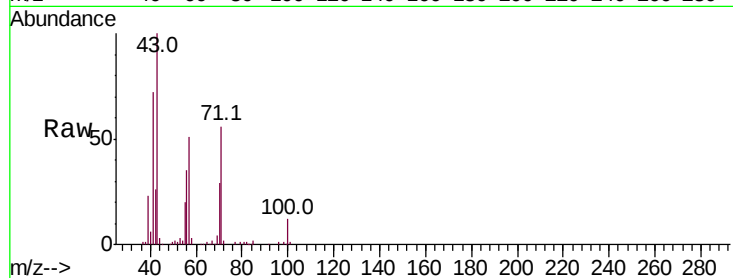
43 100

57 54.1 41.4 62.0

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#13

Ethanol

Concen: 33.601 ppbv

RT: 3.64 min Scan# 219

Delta R.T. -0.00 min

Lab File: VL033866.D

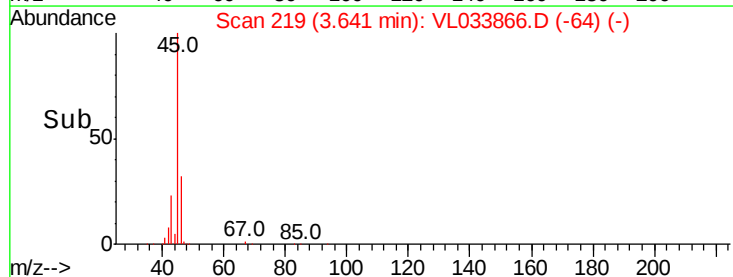
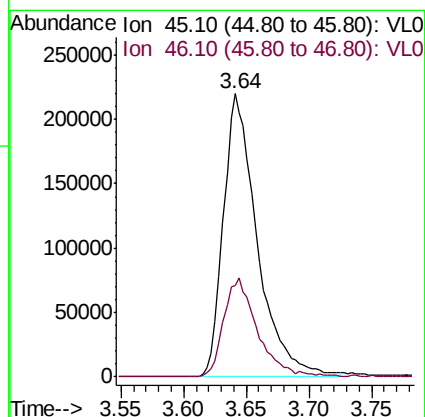
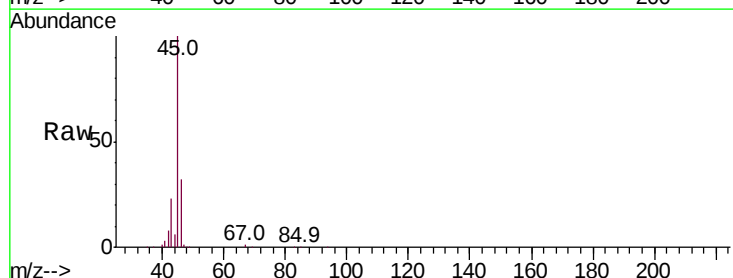
Acq: 30 May 2019 11:46

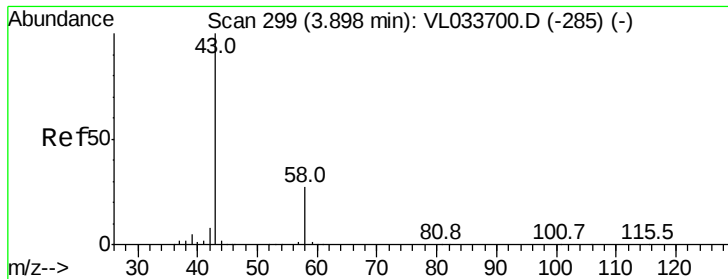
Tgt Ion: 45 Resp: 412559

Ion Ratio Lower Upper

45 100

46 35.1 14.8 59.0





#15

Acetone

Concen: 13.163 ppbv m

RT: 3.89 min Scan# 297

Delta R.T. -0.01 min

Lab File: VL033866.D

Acq: 30 May 2019 11:46

Tot Ion: 43 Resp: 1423997

Ion Ratio Lower Upper

43 100

58 28.5 21.3 31.9

Instrument :

MSVOA_L

ClientSampleId :

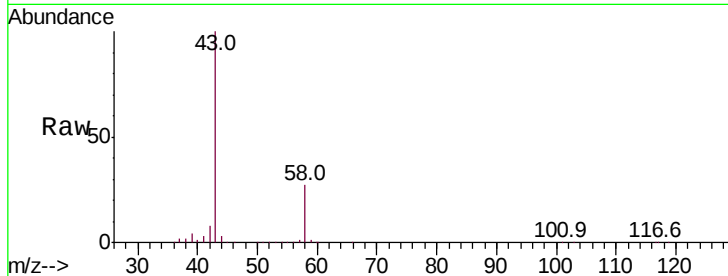
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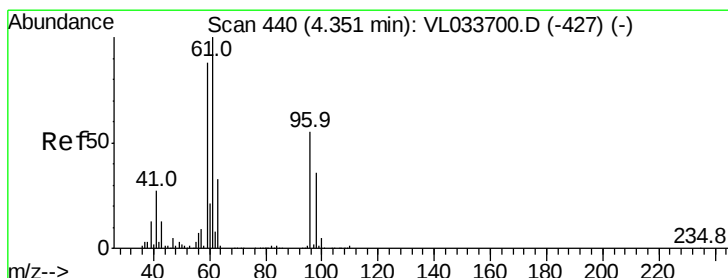
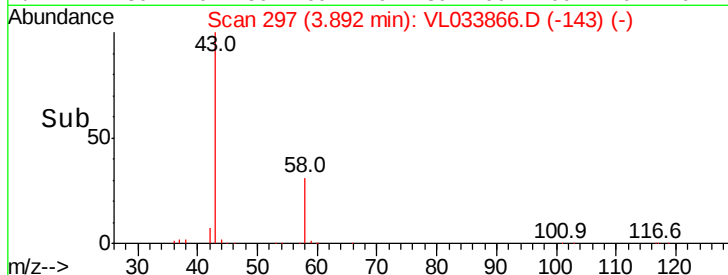
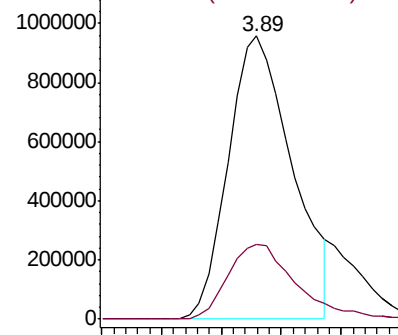
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.299 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.01 min

Lab File: VL033866.D

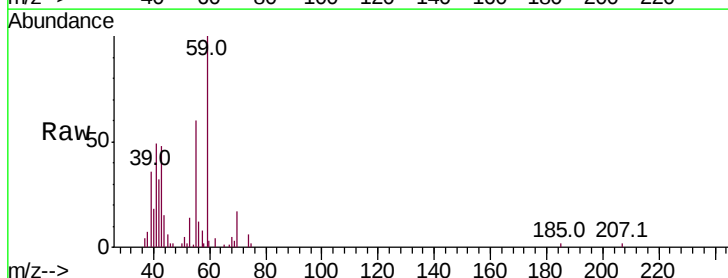
Acq: 30 May 2019 11:46

Tgt Ion: 59 Resp: 26117

Ion Ratio Lower Upper

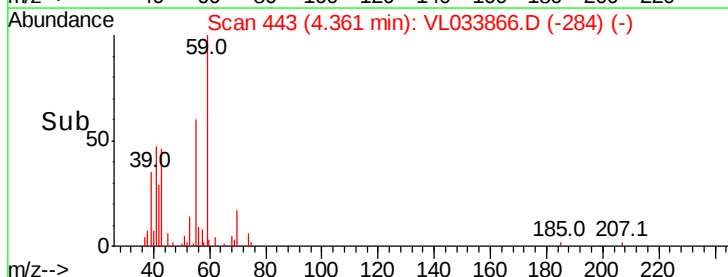
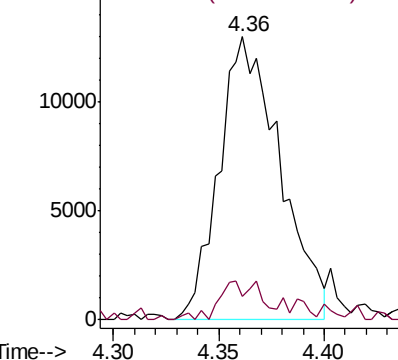
59 100

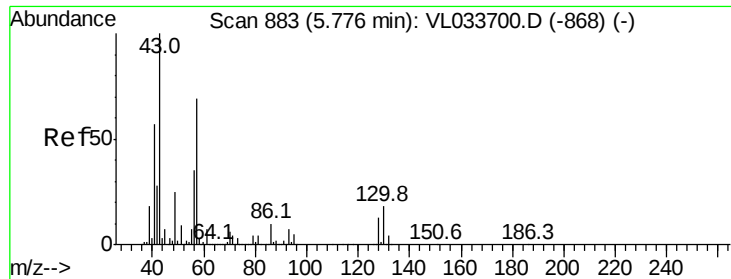
57 0.0 8.4 12.6#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





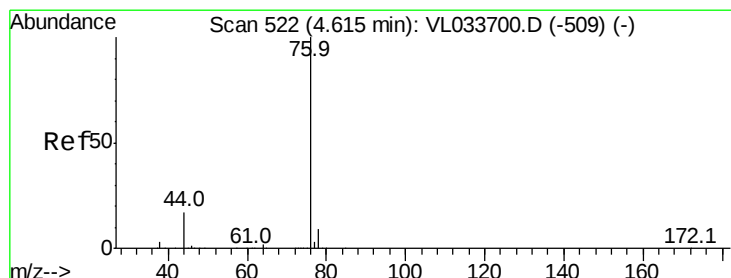
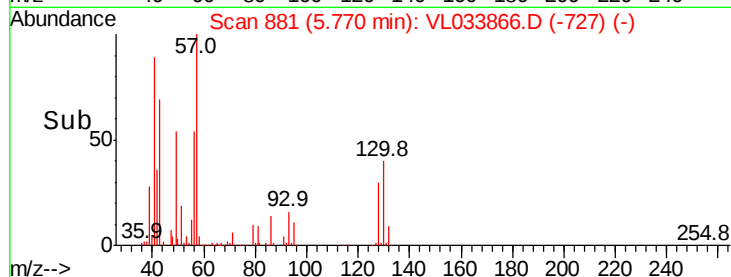
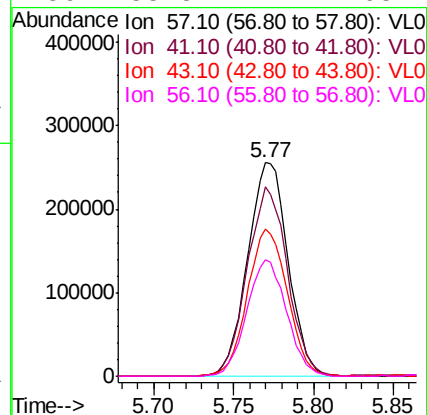
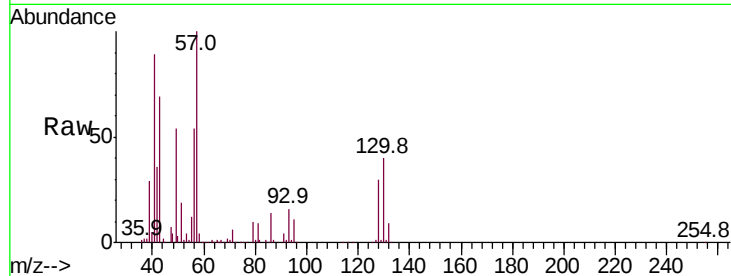
#26
Hexane
Concen: 5.385 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033866.D
Acq: 30 May 2019 11:46

Instrument :
MSVOA_L
ClientSampleId :
SSG-2DLDUP

Tot Ion	57	Resp	439912
Ion Ratio	Lower	Upper	
57	100		
41	88.9	69.8	104.6
43	68.2	181.8	272.6#
56	53.8	42.1	63.1

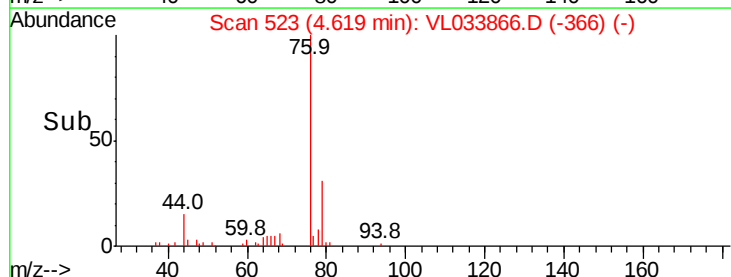
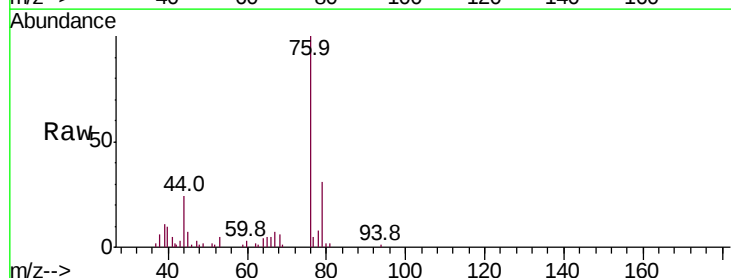
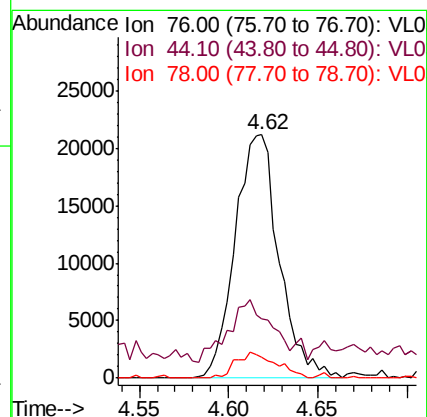
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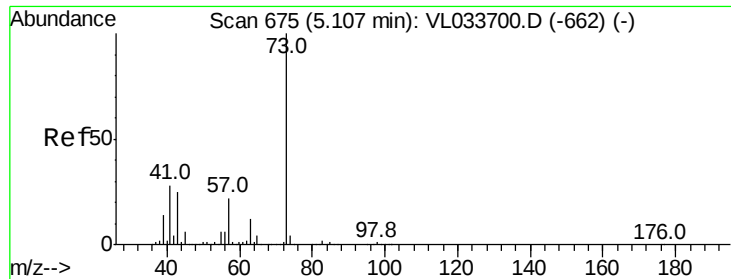
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#27
Carbon Disulfide
Concen: 0.323 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033866.D
Acq: 30 May 2019 11:46

Tgt Ion	76	Resp	36254
Ion Ratio	Lower	Upper	
76	100		
44	33.9	13.8	20.8#
78	10.2	7.4	11.0





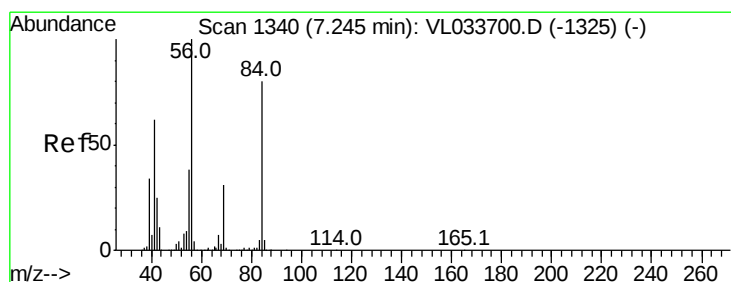
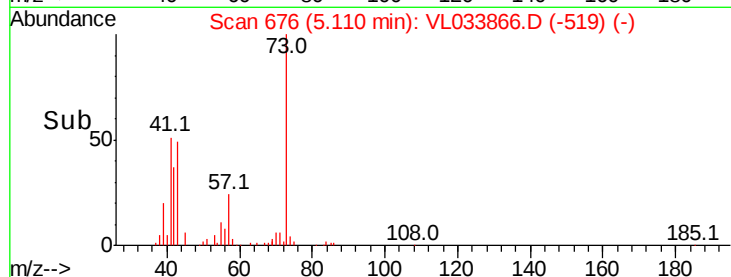
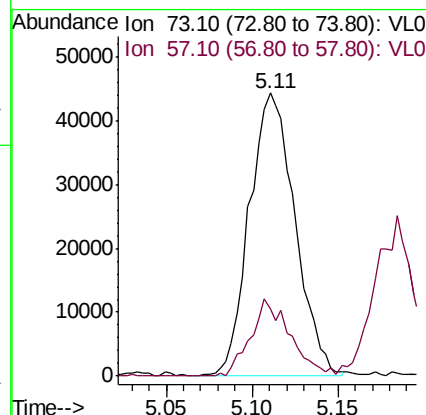
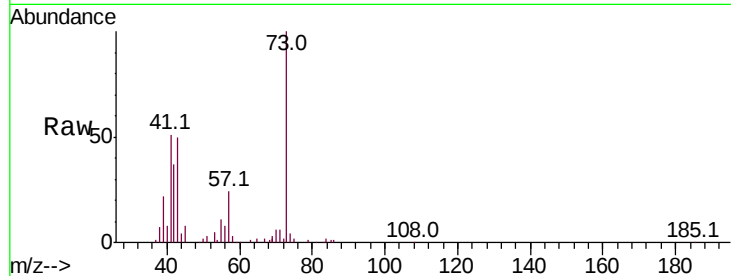
#28
Methvl tert-Butvl Ether
Concen: 0.613 ppbv
RT: 5.11 min Scan# 676
Delta R.T. 0.00 min
Lab File: VL033866.D
Acq: 30 May 2019 11:46

Instrument :
MSVOA_L
ClientSampleId :
SSG-2DLDUP

Tot Ion: 73 Resp: 81689
Ion Ratio Lower Upper
73 100
57 23.5 17.4 26.2

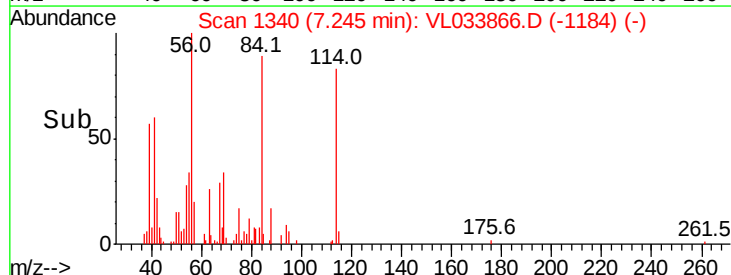
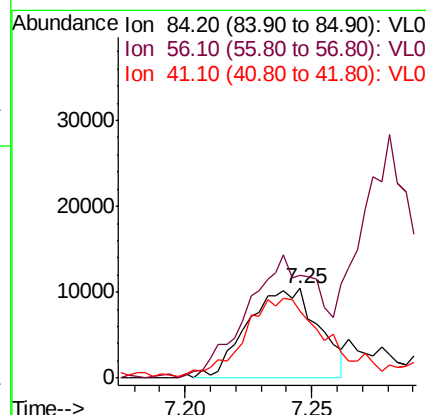
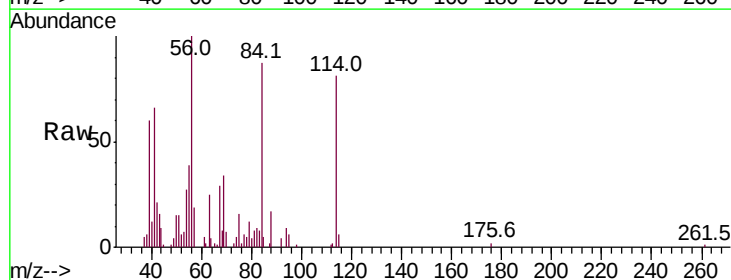
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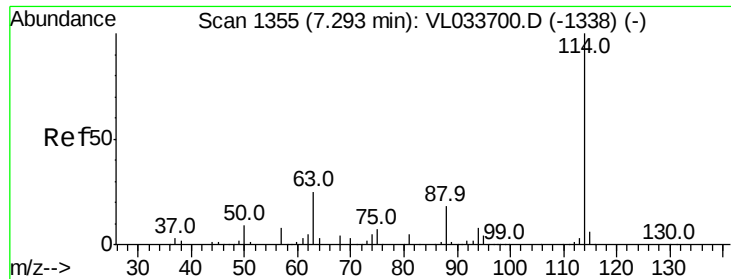
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#30
Cyclohexane
Concen: 0.294 ppbv m
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033866.D
Acq: 30 May 2019 11:46

Tgt Ion: 84 Resp: 20221
Ion Ratio Lower Upper
84 100
56 130.2 107.7 161.5
41 103.6 66.0 99.0#





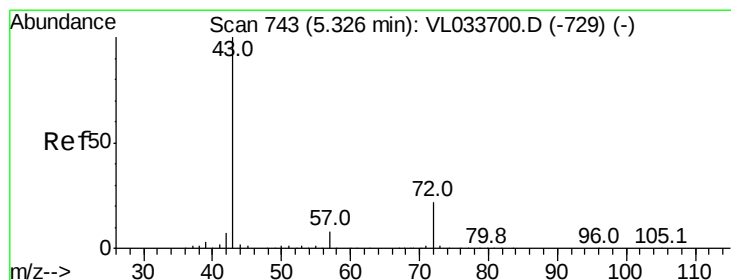
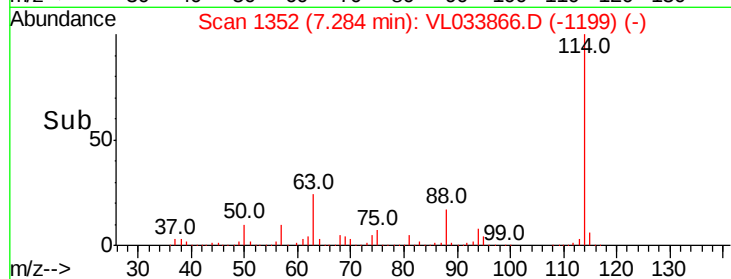
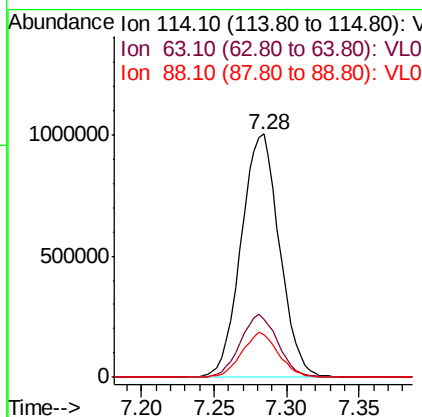
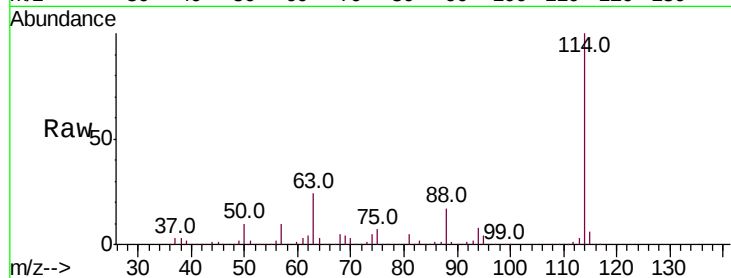
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033866.D
 Acq: 30 May 2019 11:46

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG-2DLDP

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.9	31.3
88	17.6	14.3	21.5

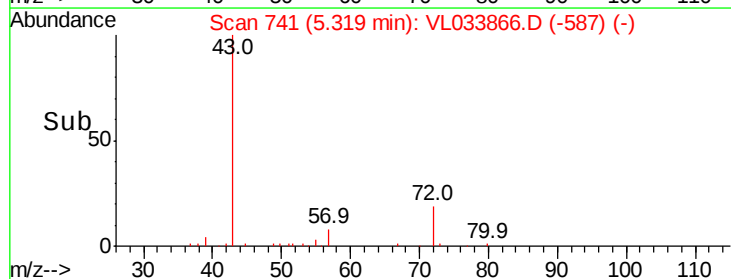
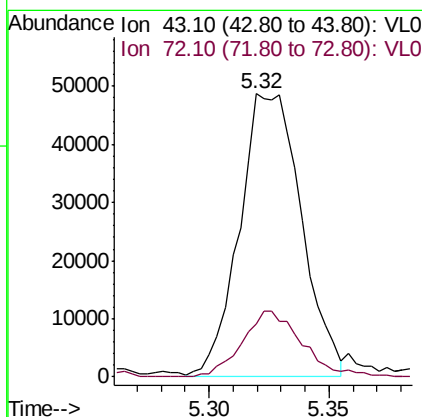
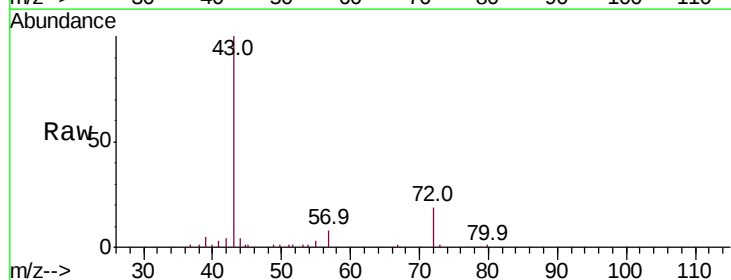
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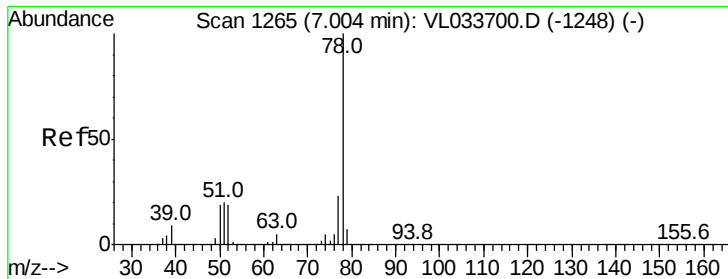
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#34
 2-Butanone
 Concen: 0.766 ppbv m
 RT: 5.32 min Scan# 741
 Delta R.T. -0.01 min
 Lab File: VL033866.D
 Acq: 30 May 2019 11:46

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.8	26.6#





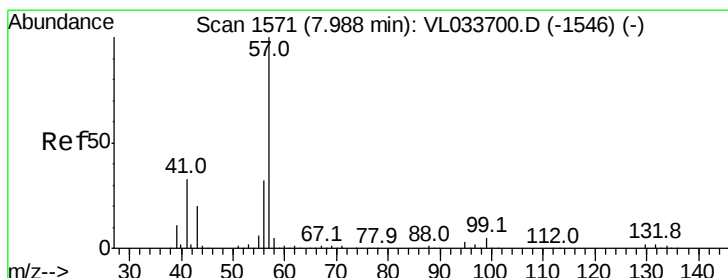
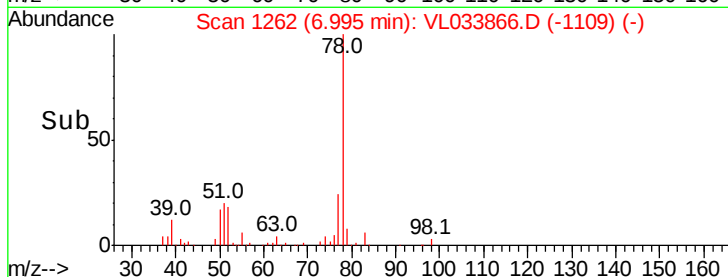
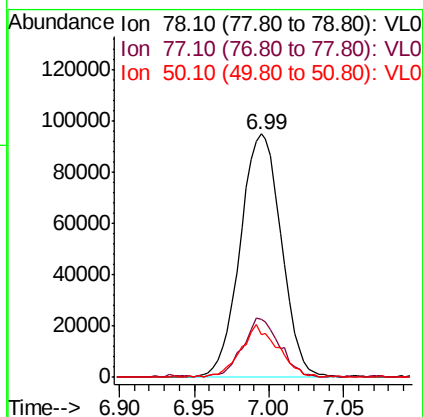
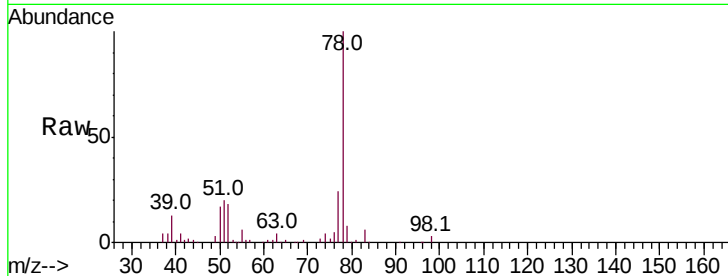
#36
Benzene
Concen: 1.083 ppbv
RT: 6.99 min Scan# 1262
Delta R.T. -0.01 min
Lab File: VL033866.D
Acq: 30 May 2019 11:46

Instrument :
MSVOA_L
ClientSampleId :
SSG-2DLDUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.4	27.6
50	17.0	15.5	23.3

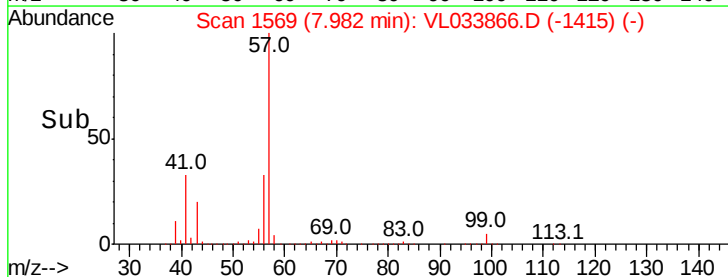
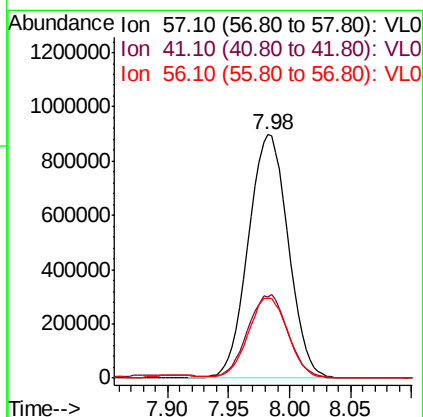
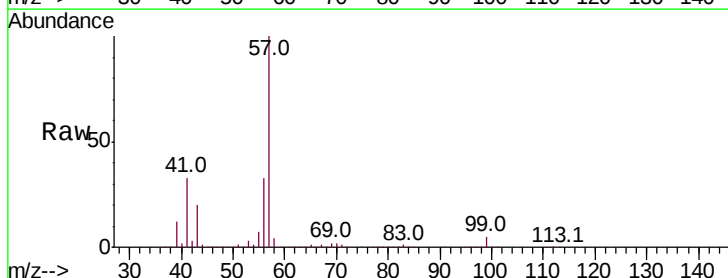
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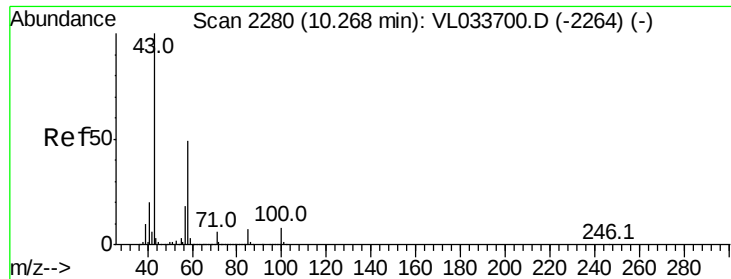
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#44
2,2,4-Trimethylpentane
Concen: 7.139 ppbv
RT: 7.98 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VL033866.D
Acq: 30 May 2019 11:46

Tgt Ion	Ratio	Lower	Upper
57	100		
41	34.5	25.4	38.0
56	33.0	24.7	37.1





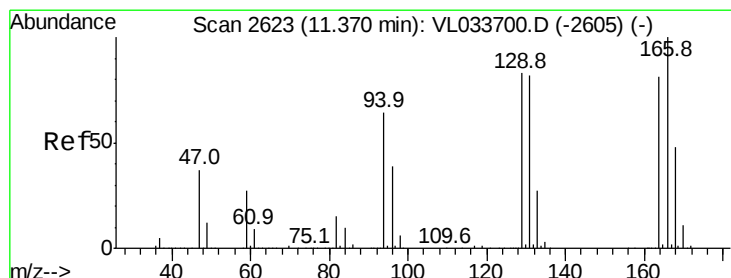
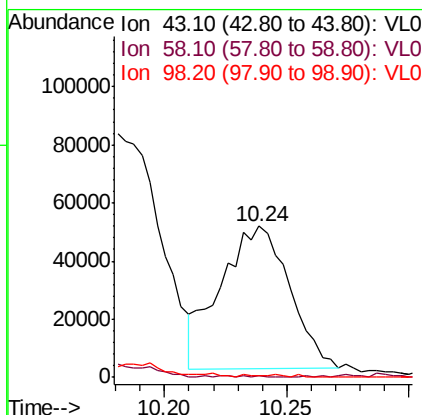
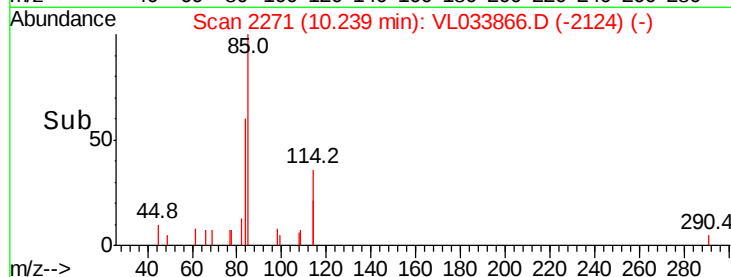
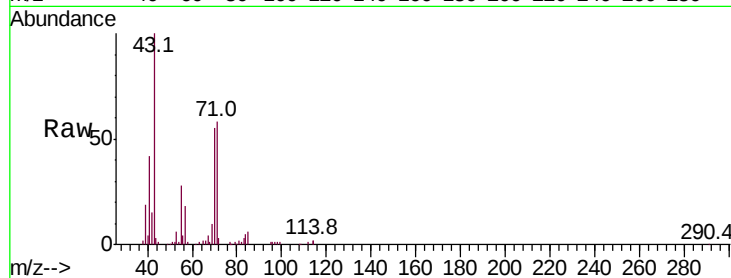
#51
2-Hexanone
Concen: 0.699 ppbv
RT: 10.24 min Scan# 2271
Delta R.T. -0.03 min
Lab File: VL033866.D
Acq: 30 May 2019 11:46

Instrument :
MSVOA_L
ClientSampled :
SSG-2DLDUP

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.7	58.1#
98	1.3	0.2	0.4#

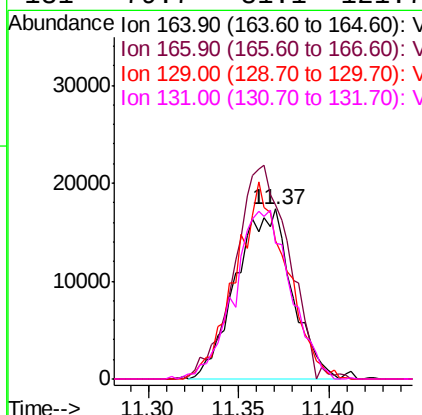
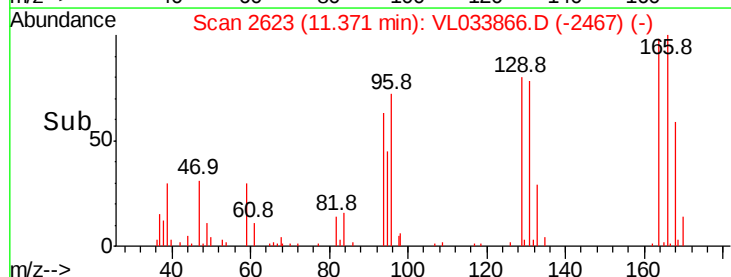
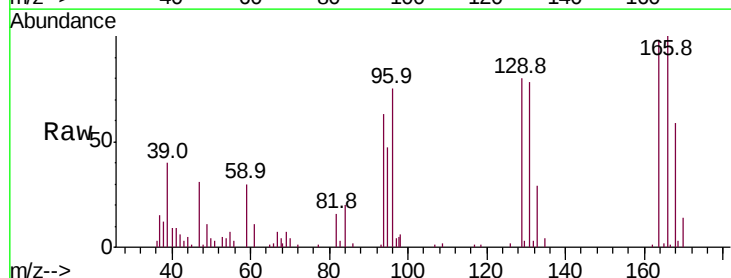
Manual Integrations
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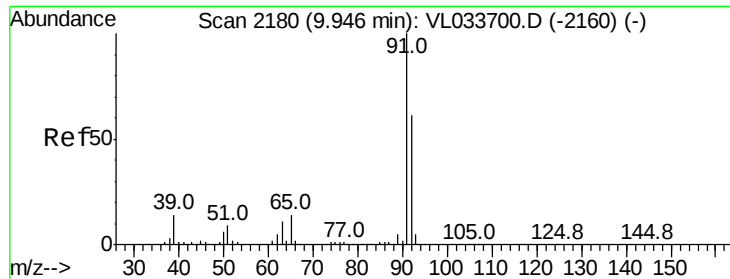
apatel
5/31/2019 2:50:55 PM



#52
Tetrachloroethene
Concen: 0.633 ppbv m
RT: 11.37 min Scan# 2623
Delta R.T. 0.00 min
Lab File: VL033866.D
Acq: 30 May 2019 11:46

Tgt Ion	Ratio	Lower	Upper
164	100		
166	102.3	98.9	148.3
129	81.6	81.8	122.6#
131	79.7	81.1	121.7#





#53

Toluene

Concen: 0.910 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033866.D

Acq: 30 May 2019 11:46

Instrument :

MSVOA_L

ClientSampleId :

SSG-2DLDUP

Tot Ion: 91 Resp: 164860

Ion Ratio Lower Upper

91 100

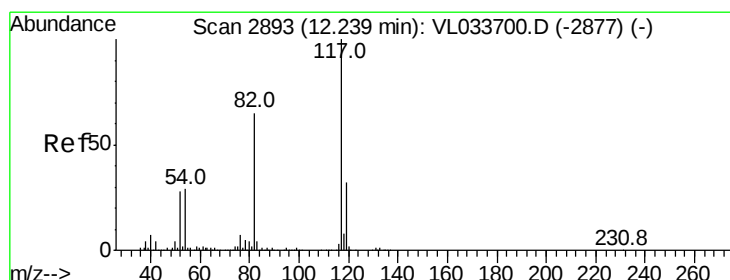
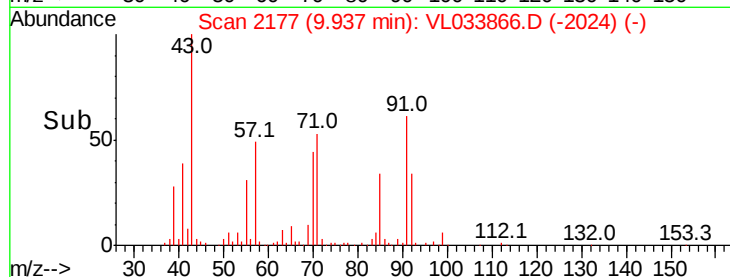
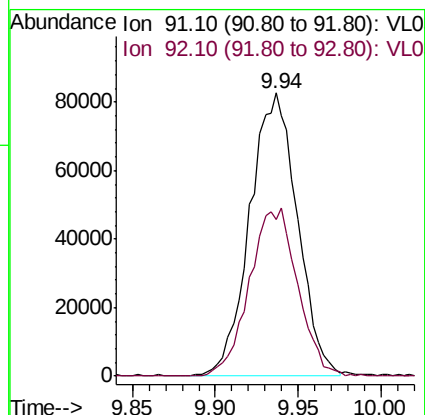
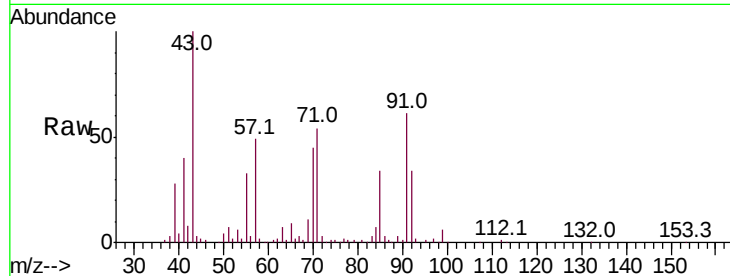
92 60.1 47.6 71.4

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL033866.D

Acq: 30 May 2019 11:46

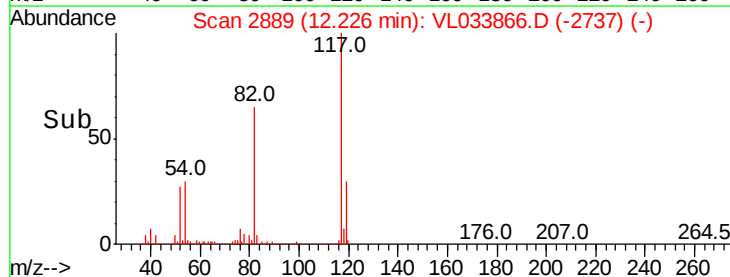
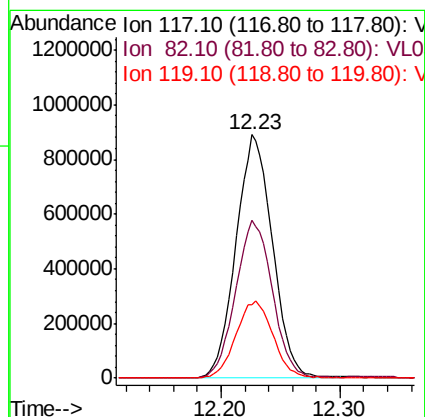
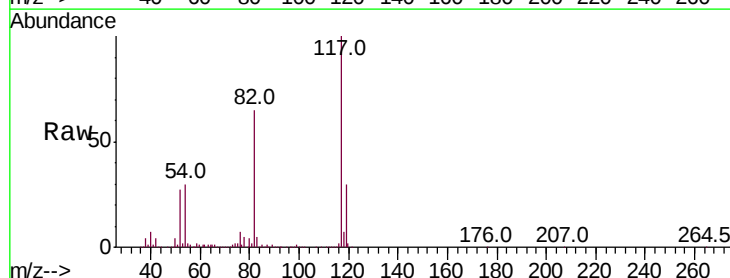
Tgt Ion: 117 Resp: 1893287

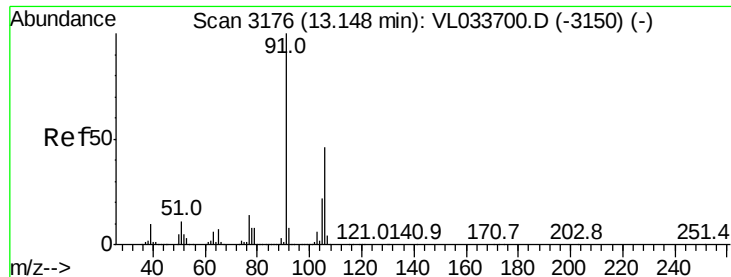
Ion Ratio Lower Upper

117 100

82 65.3 49.4 74.0

119 32.1 24.9 37.3





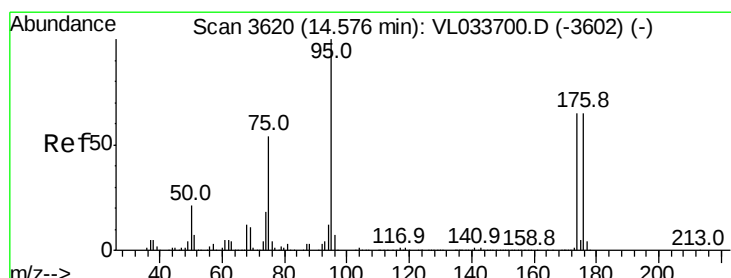
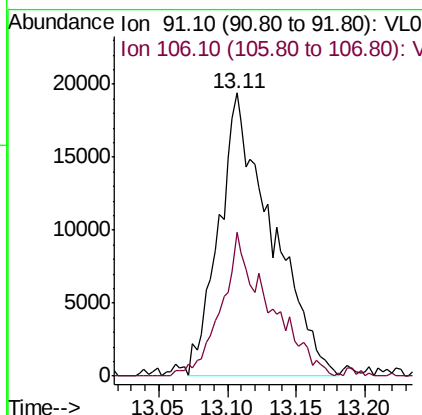
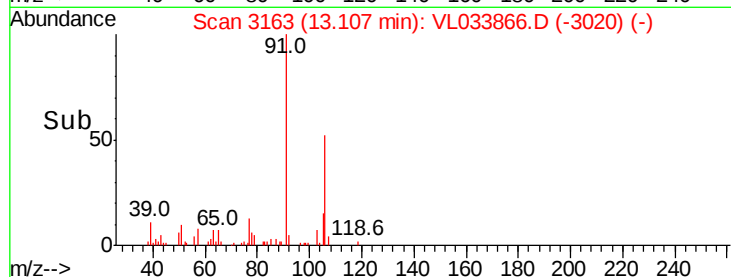
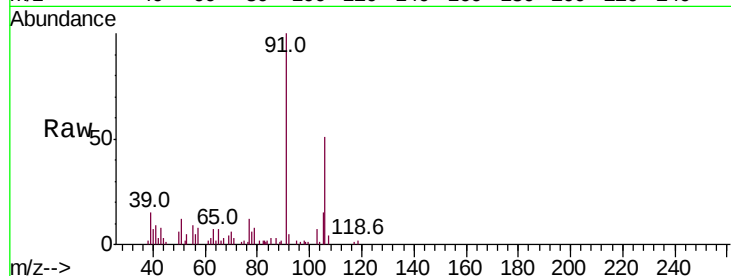
#59
m/p-Xylene
Concen: 0.237 ppbv m
RT: 13.11 min Scan# 3163
Delta R.T. -0.04 min
Lab File: VL033866.D
Acq: 30 May 2019 11:46

Instrument :
MSVOA_L
ClientSampleId :
SSG-2DLDUP

Tot Ion: 91 Resp: 51897
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.6#

Manual Integrations
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5/31/2019 2:50:55 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.939 ppbv
RT: 14.56 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL033866.D
Acq: 30 May 2019 11:46

Tgt Ion: 95 Resp: 1525479
Ion Ratio Lower Upper
95 100
174 67.0 53.9 80.9
175 4.7 3.8 5.8

