

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062619\
 Data File : VL033973.D
 Acq On : 26 Jun 2019 18:43
 Operator : SY/AP
 Sample : K3538-03DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-AIRDUP

Manual Integrations
 APPROVED

MMDadoda
 6/27/2019 3:01:13 PM

Quant Time: Jun 27 05:29:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	662075	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.26	114	1569216	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.21	117	1553617	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.54	95	1317347	10.32	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.07	85	28076	0.261	ppbv	89
3) Chlorodifluoromethane	3.00	51	35716m	0.458	ppbv	
4) Chloromethane	3.16	50	24981m	0.562	ppbv	
9) Propene	3.03	41	18730	0.642	ppbv	84
11) Trichlorofluoromethane	3.99	101	39335	0.284	ppbv	91
13) Ethanol	3.64	45	110573	11.653	ppbv	96
15) Acetone	3.89	43	684224	7.086	ppbv	99
19) Isopropyl Alcohol	4.02	45	38761	0.703	ppbv #	94
20) Methylene Chloride	4.39	84	44557	1.183	ppbv	91
26) Hexane	5.76	57	65312	0.975	ppbv #	47
34) 2-Butanone	5.32	43	73262	0.828	ppbv	98
35) Carbon Tetrachloride	7.11	117	8955m	0.074	ppbv	
36) Benzene	6.98	78	19797m	0.165	ppbv	
44) 2,2,4-Trimethylpentane	7.97	57	43308m	0.203	ppbv	
52) Tetrachloroethene	11.34	164	1779m	0.042	ppbv	
53) Toluene	9.92	91	342484	2.582	ppbv	99
59) m/p-Xylene	13.09	91	18140m	0.114	ppbv	

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

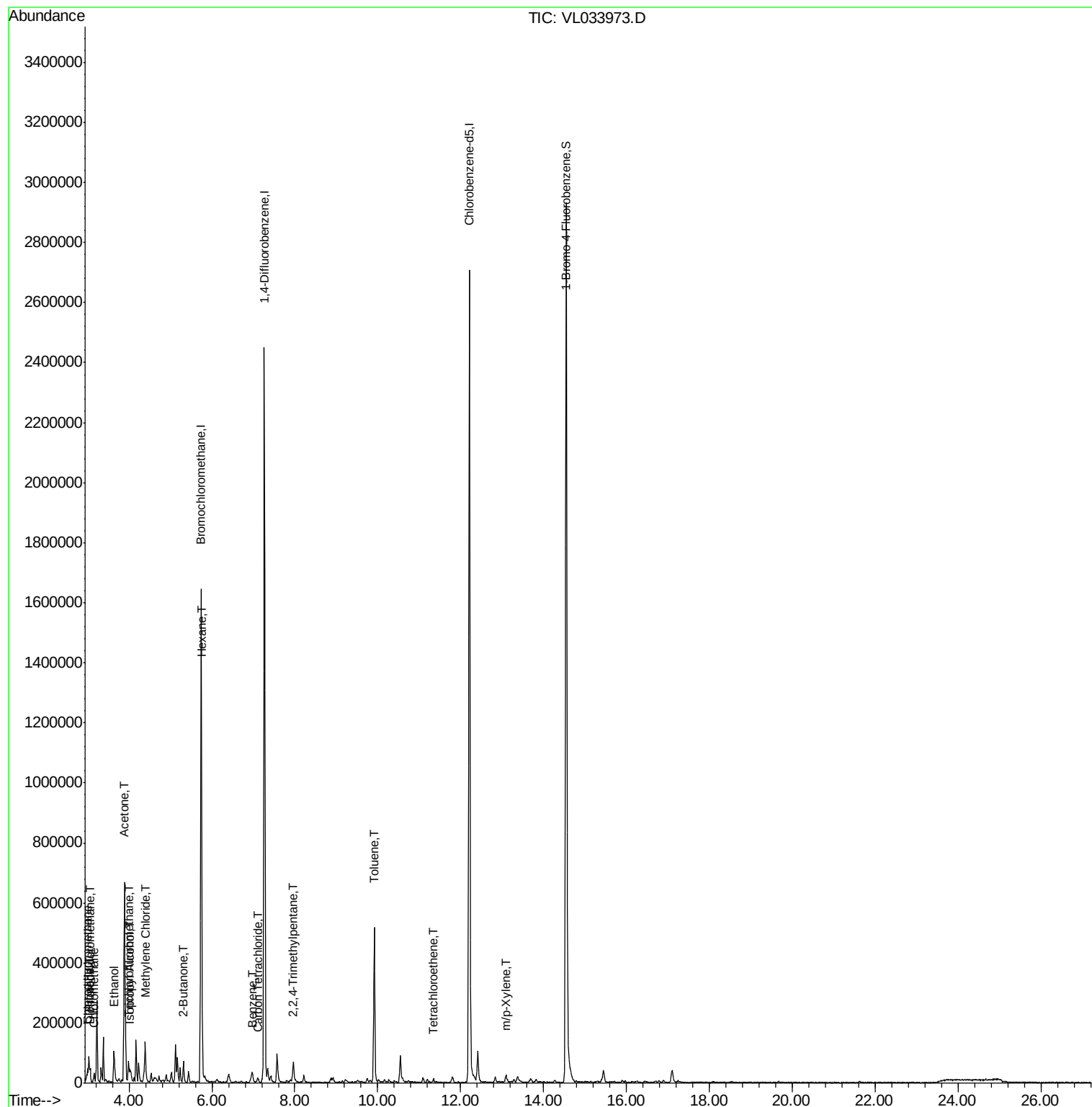
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062619\
Data File : VL033973.D
Acq On : 26 Jun 2019 18:43
Operator : SY/AP
Sample : K3538-03DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

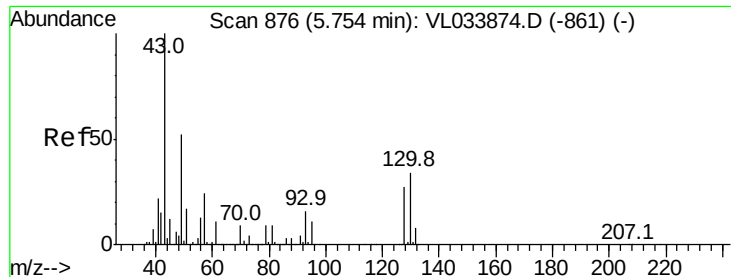
Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AIRDUP

Manual Integrations
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6/27/2019 3:01:13 PM

Quant Time: Jun 27 05:29:23 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 871

Delta R.T. -0.02 min

Lab File: VL033973.D

Acq: 26 Jun 2019 18:43

Instrument :

MSVOA_L

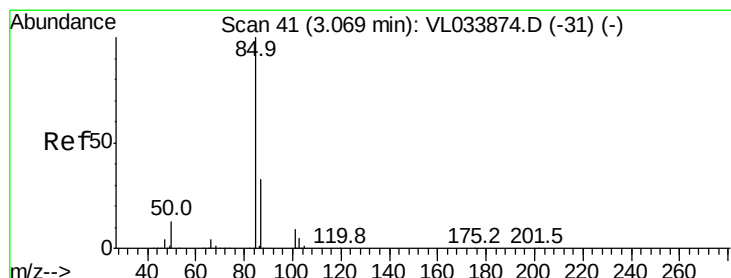
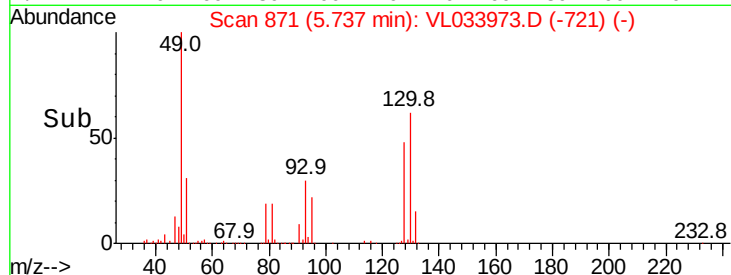
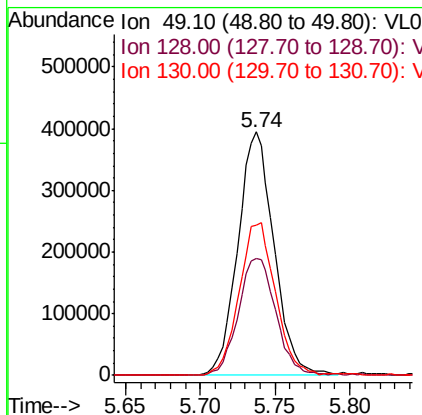
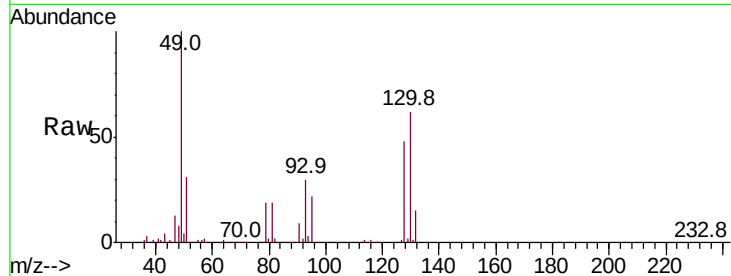
ClientSampleId :

OUTDOOR-AIRDUP

Tot Ion	Ratio	Lower	Upper
49	100		
128	50.3	25.5	76.5
130	63.9	32.5	97.4

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.261 ppbv

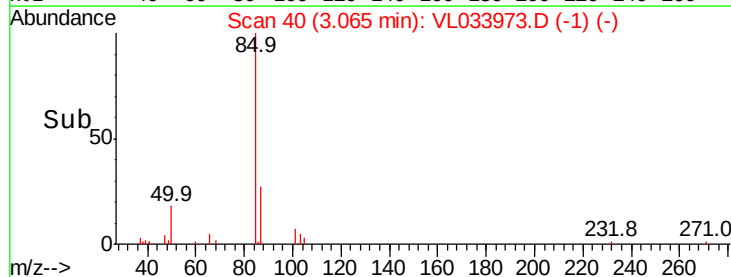
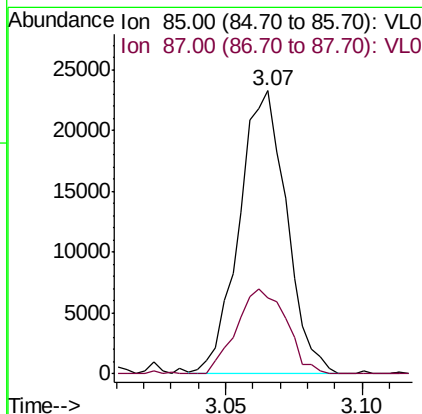
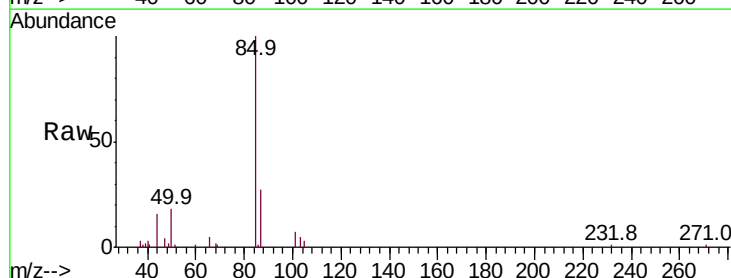
RT: 3.07 min Scan# 40

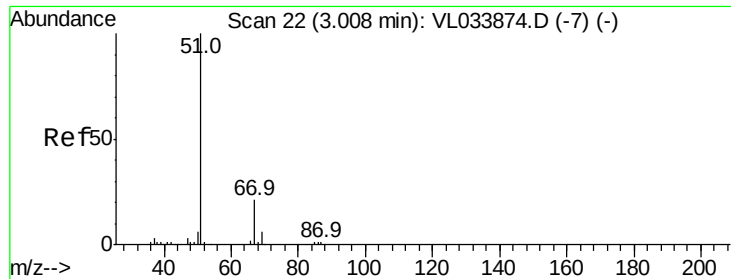
Delta R.T. -0.00 min

Lab File: VL033973.D

Acq: 26 Jun 2019 18:43

Tgt Ion	Ratio	Lower	Upper
85	100		
87	27.0	26.6	40.0





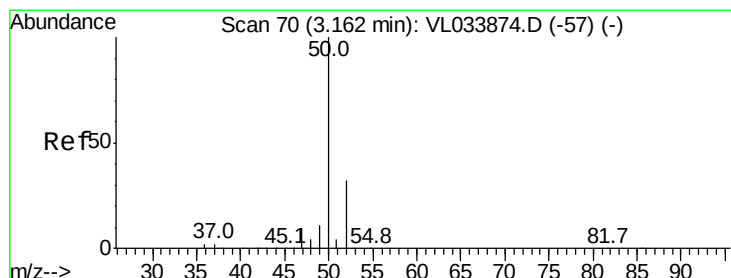
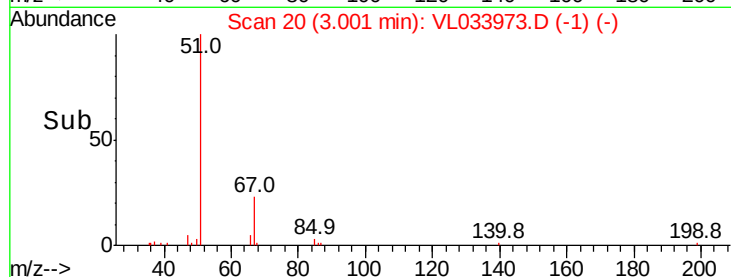
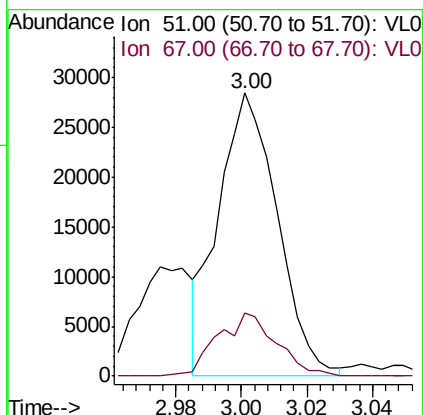
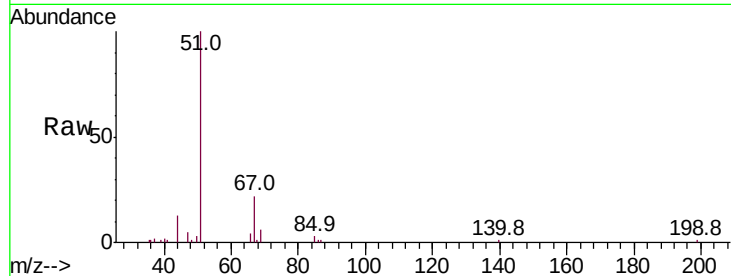
#3
Chlorodifluoromethane
Concen: 0.458 ppbv m
RT: 3.00 min Scan# 20
Delta R.T. -0.01 min
Lab File: VL033973.D
Acq: 26 Jun 2019 18:43

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AIRDUP

Tot Ion: 51 Resp: 35716
Ion Ratio Lower Upper
51 100
67 22.2 16.4 24.6

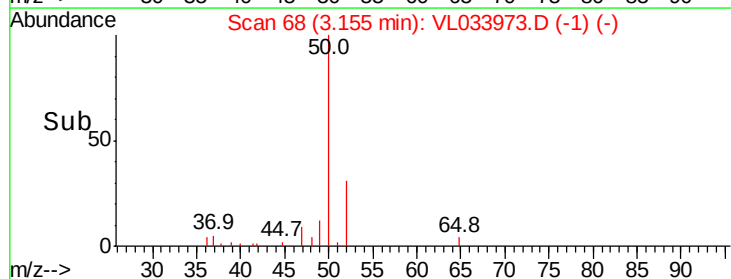
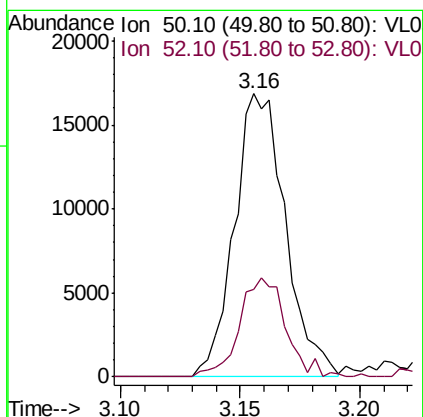
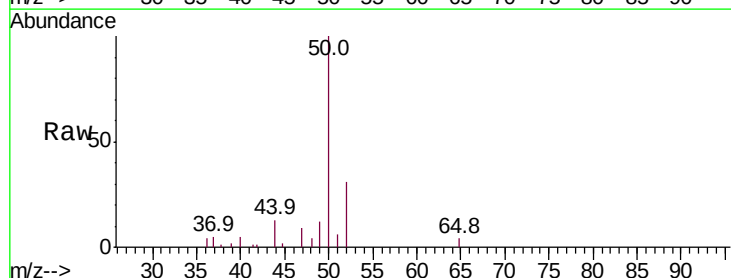
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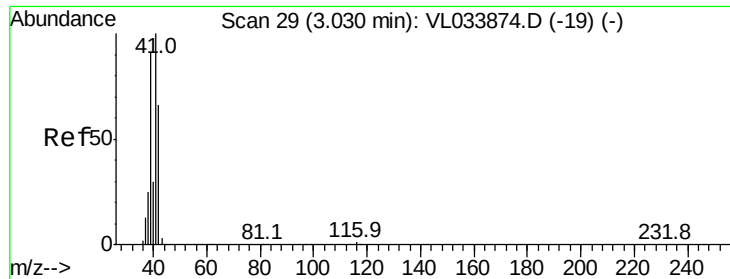
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#4
Chloromethane
Concen: 0.562 ppbv m
RT: 3.16 min Scan# 68
Delta R.T. -0.01 min
Lab File: VL033973.D
Acq: 26 Jun 2019 18:43

Tgt Ion: 50 Resp: 24981
Ion Ratio Lower Upper
50 100
52 31.1 25.4 38.0





#9

Propene

Concen: 0.642 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033973.D

Acq: 26 Jun 2019 18:43

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AIRDUP

Tot Ion: 41 Resp: 18730

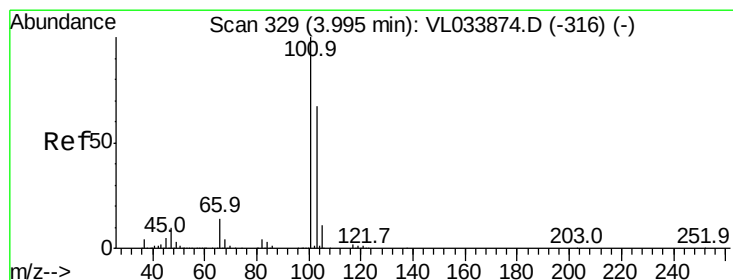
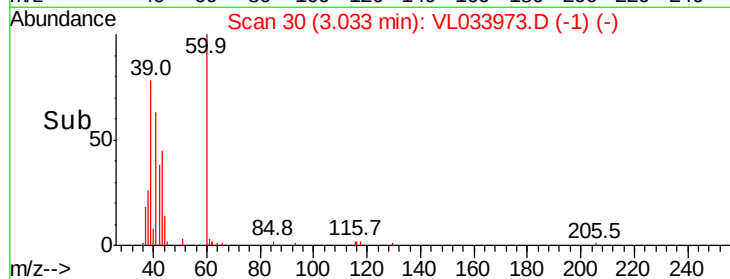
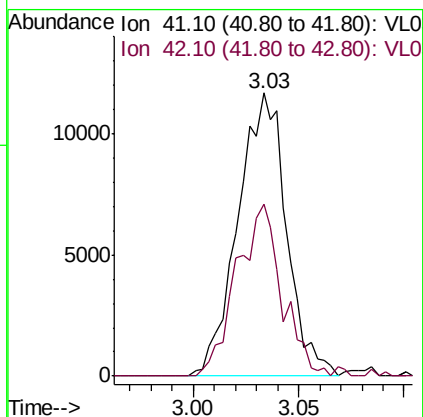
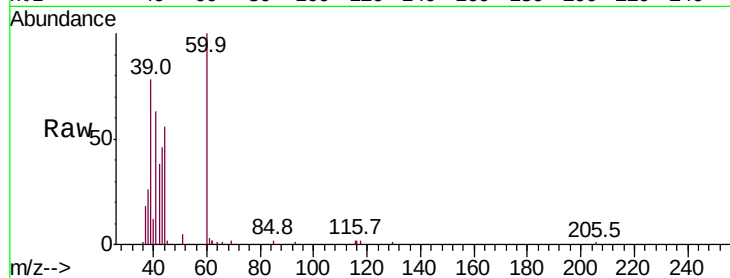
Ion Ratio Lower Upper

41 100

42 57.1 56.3 84.5

Manual Integrations
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#11

Trichlorofluoromethane

Concen: 0.284 ppbv

RT: 3.99 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL033973.D

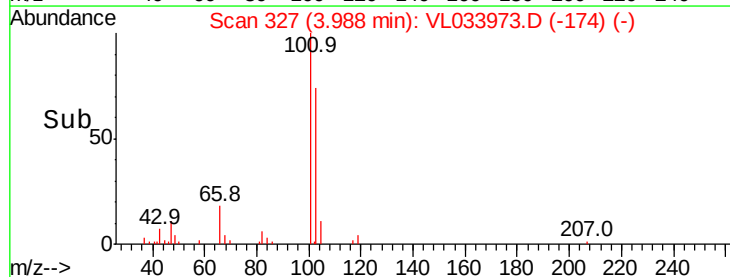
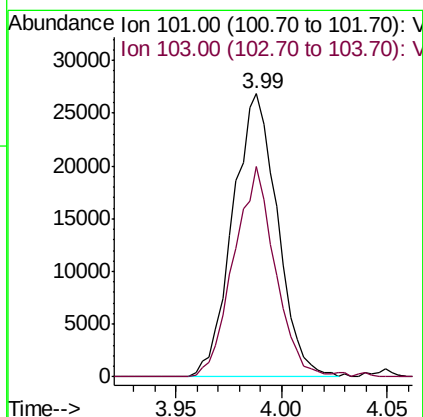
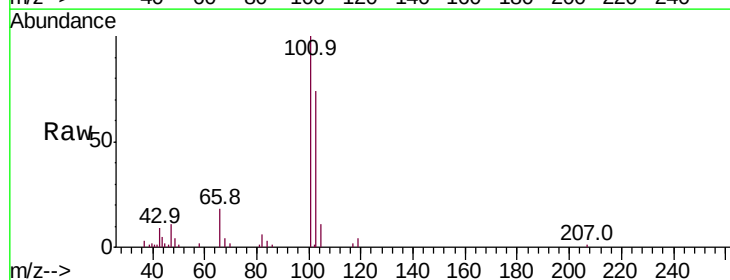
Acq: 26 Jun 2019 18:43

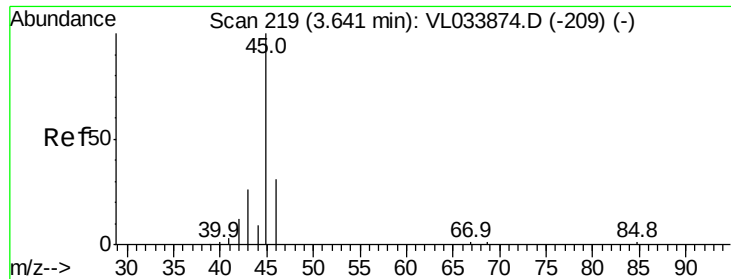
Tgt Ion: 101 Resp: 39335

Ion Ratio Lower Upper

101 100

103 74.4 53.6 80.4





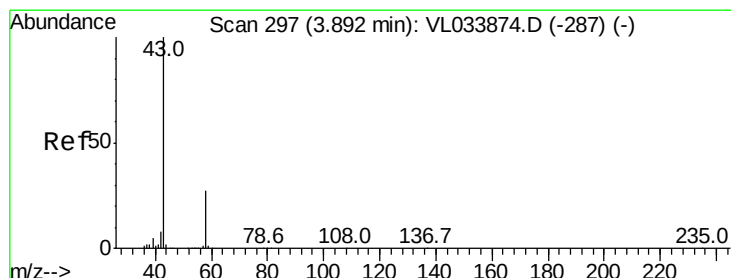
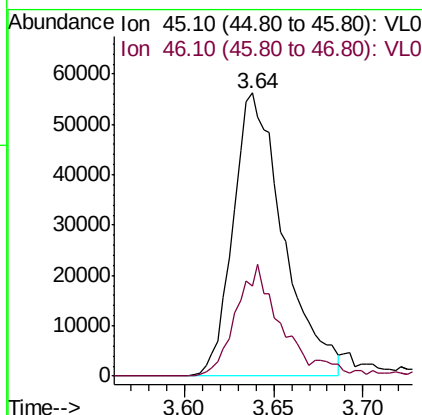
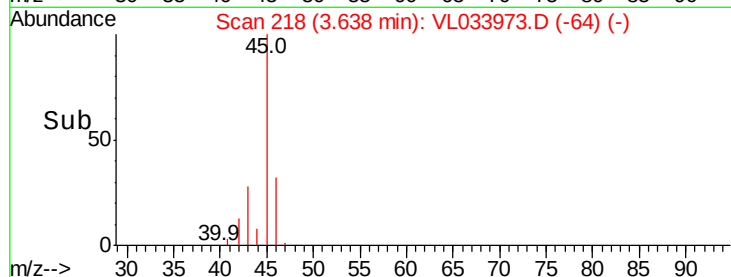
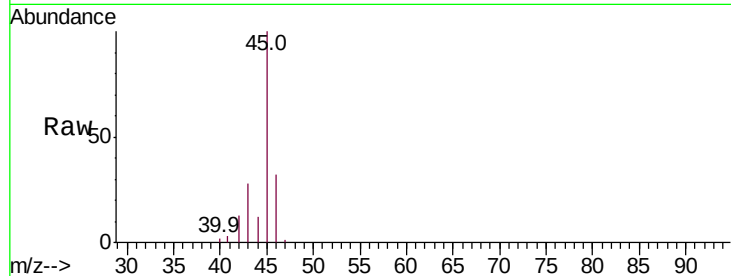
#13
Ethanol
Concen: 11.653 ppbv
RT: 3.64 min Scan# 218
Delta R.T. -0.00 min
Lab File: VL033973.D
Acq: 26 Jun 2019 18:43

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AIRDUP

Tot Ion: 45 Resp: 110573
Ion Ratio Lower Upper
45 100
46 36.0 15.3 61.1

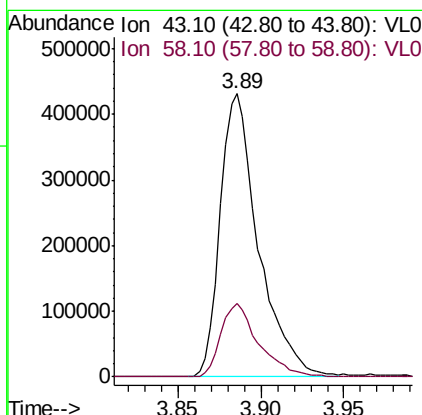
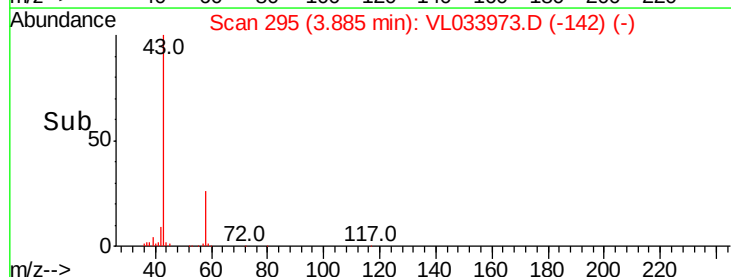
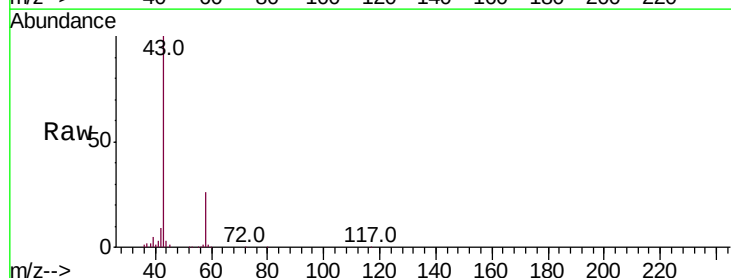
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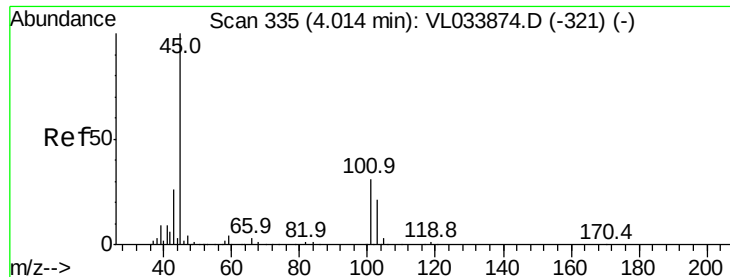
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#15
Acetone
Concen: 7.086 ppbv
RT: 3.89 min Scan# 295
Delta R.T. -0.01 min
Lab File: VL033973.D
Acq: 26 Jun 2019 18:43

Tgt Ion: 43 Resp: 684224
Ion Ratio Lower Upper
43 100
58 25.9 21.3 31.9





#19

Isopropyl Alcohol

Concen: 0.703 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL033973.D

Acq: 26 Jun 2019 18:43

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AIRDUP

Tot Ion: 45 Resp: 38761

Ion Ratio Lower Upper

45 100

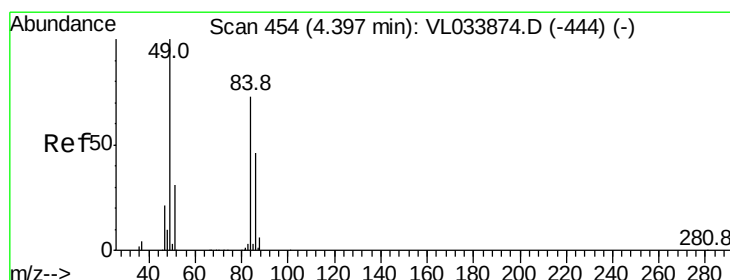
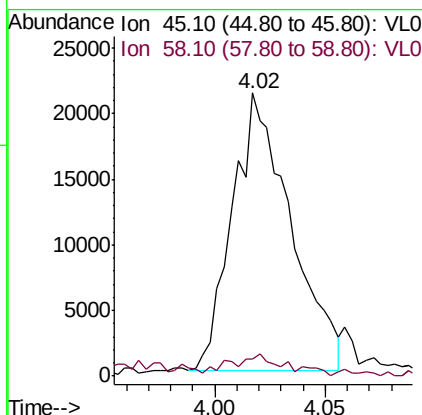
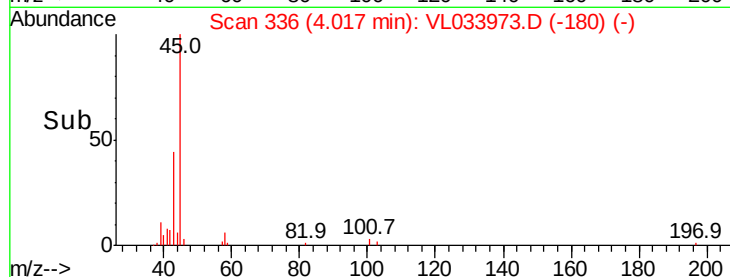
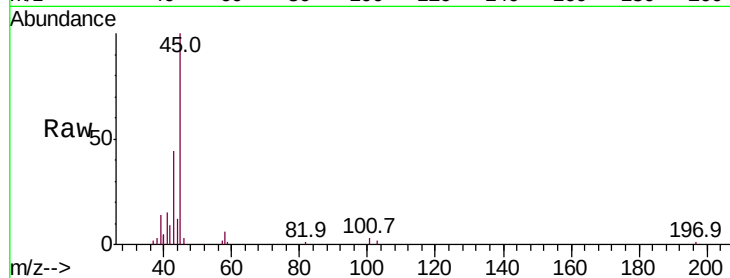
58 0.0 1.8 2.6#

Manual Integrations

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#20

Methylene Chloride

Concen: 1.183 ppbv

RT: 4.39 min Scan# 452

Delta R.T. -0.01 min

Lab File: VL033973.D

Acq: 26 Jun 2019 18:43

Tgt Ion: 84 Resp: 44557

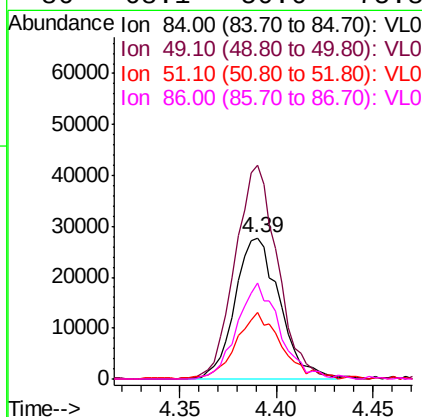
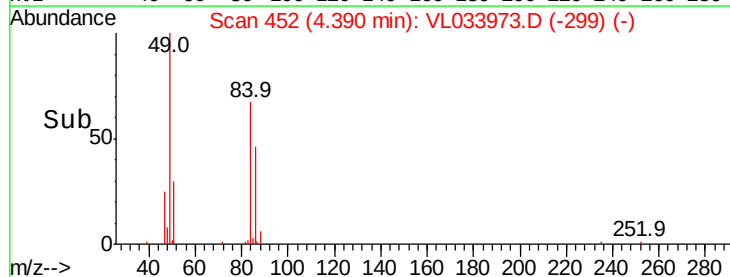
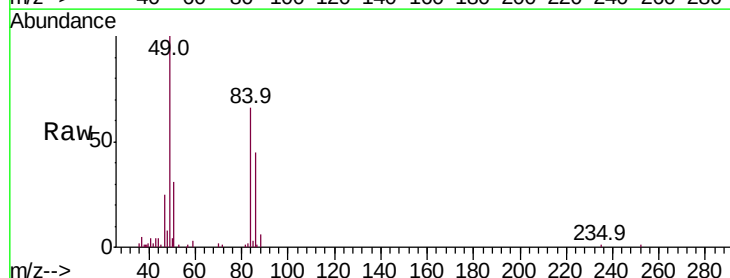
Ion Ratio Lower Upper

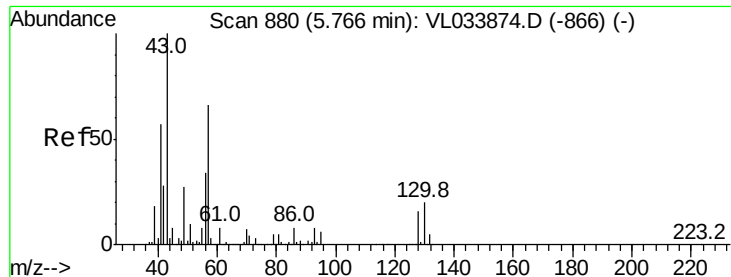
84 100

49 149.9 110.0 165.0

51 47.3 34.6 51.8

86 68.1 50.6 75.8





#26

Hexane

Concen: 0.975 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033973.D

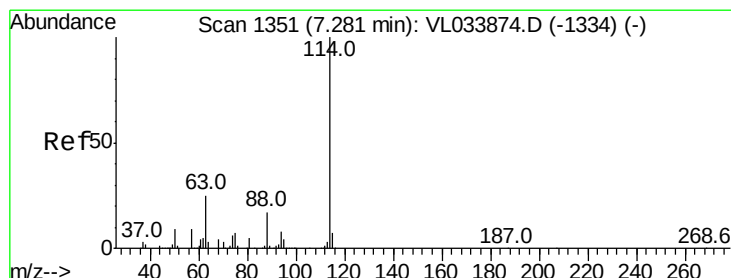
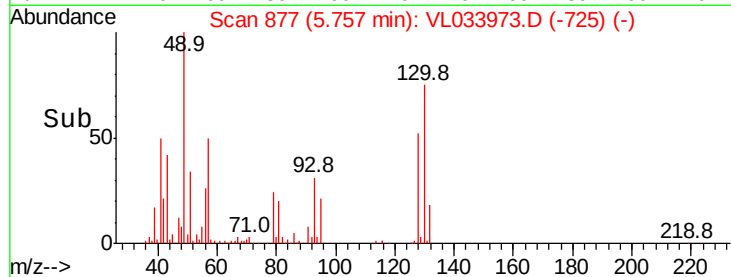
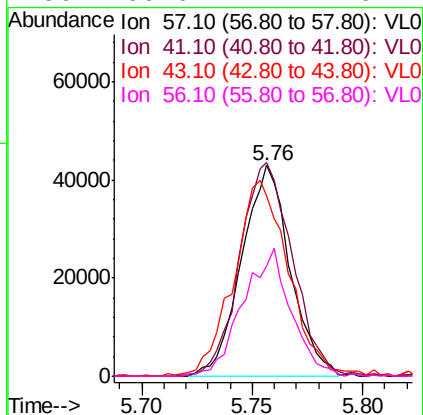
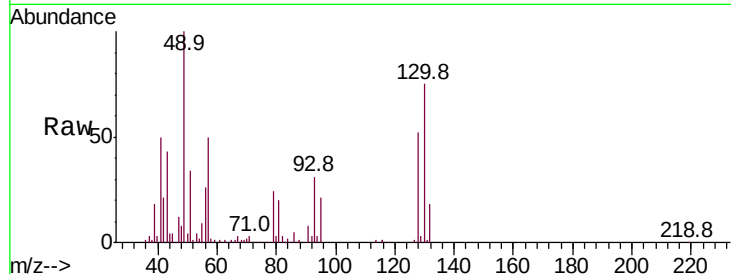
Acq: 26 Jun 2019 18:43

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AIRDUP

Tot Ion	57	Resp	65312
Ion	Ratio	Lower	Upper
57	100		
41	111.1	71.4	107.2#
43	105.2	183.7	275.5#
56	60.6	42.7	64.1

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

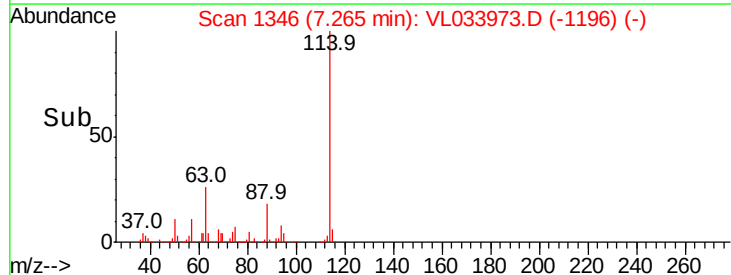
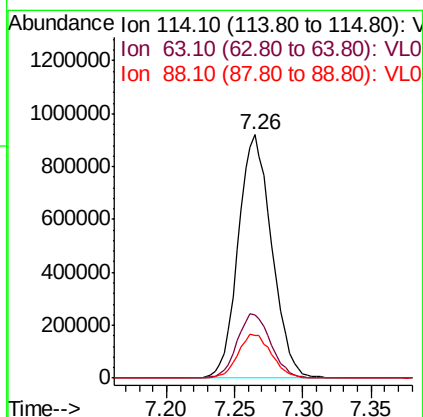
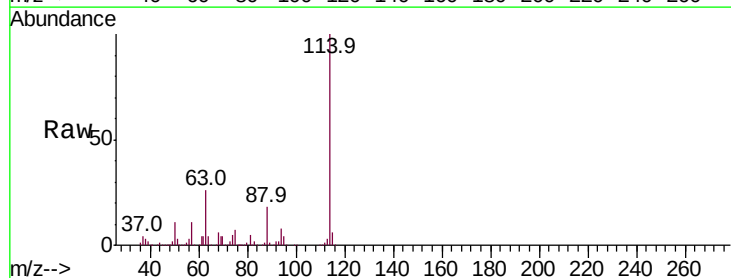
RT: 7.26 min Scan# 1346

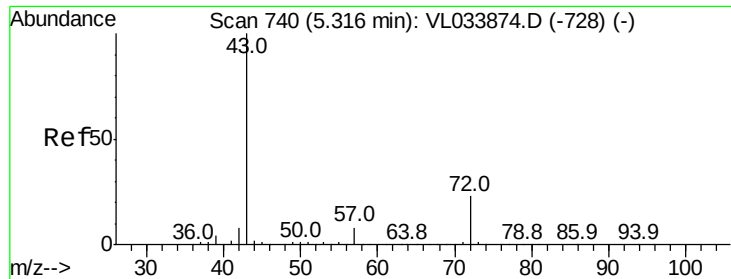
Delta R.T. -0.02 min

Lab File: VL033973.D

Acq: 26 Jun 2019 18:43

Tgt Ion	114	Resp	1569216
Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.1	31.7
88	18.2	14.2	21.4





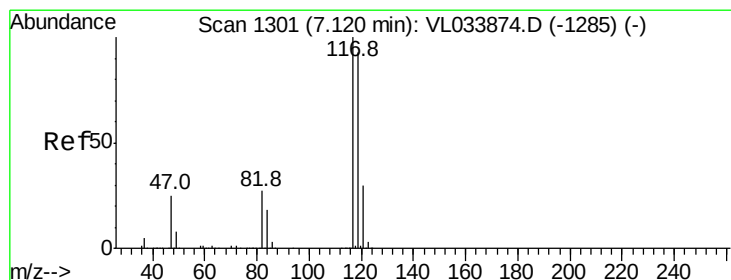
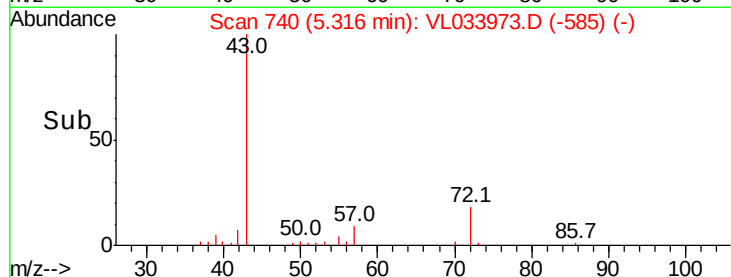
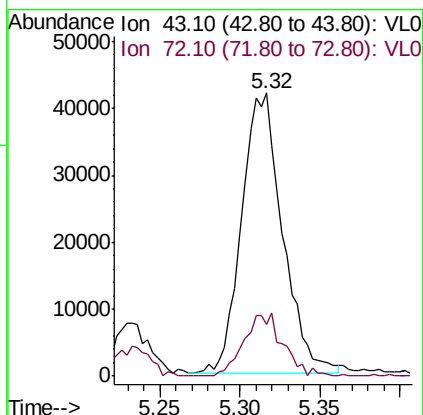
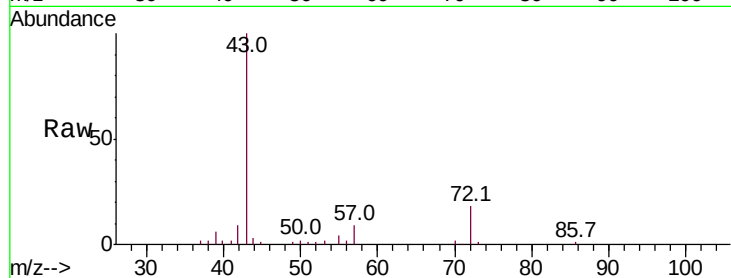
#34
2-Butanone
Concen: 0.828 ppbv
RT: 5.32 min Scan# 740
Delta R.T. -0.00 min
Lab File: VL033973.D
Acq: 26 Jun 2019 18:43

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AIRDUP

Tot Ion: 43 Resp: 73262
Ion Ratio Lower Upper
43 100
72 21.4 17.9 26.9

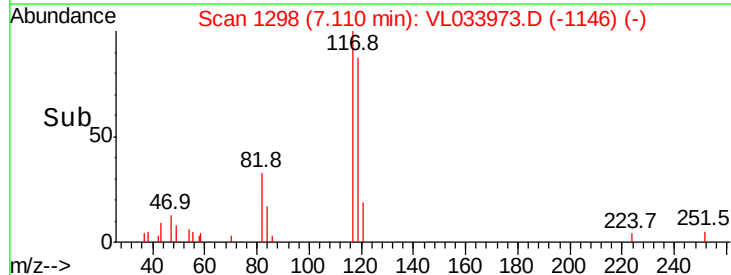
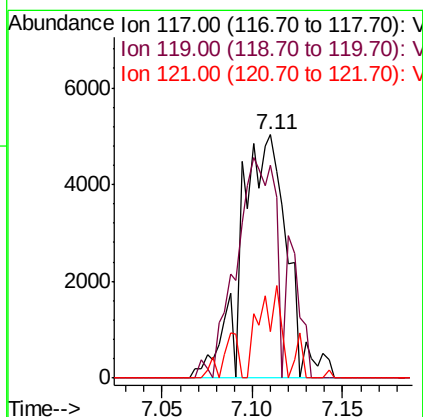
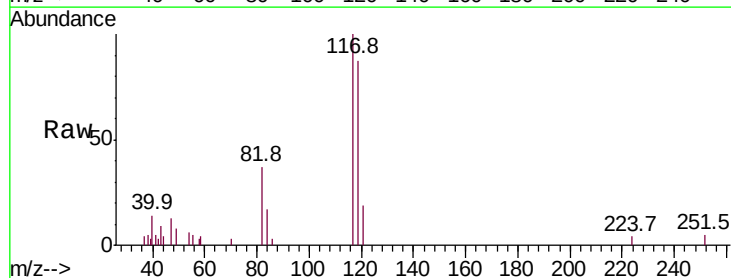
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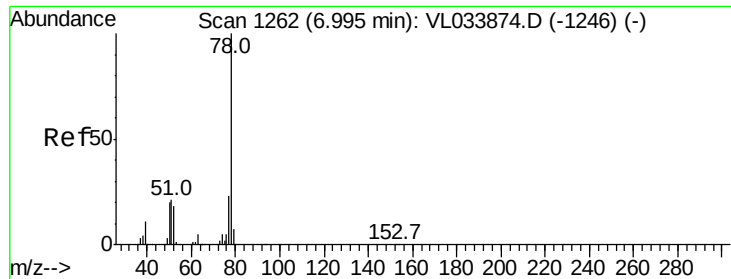
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#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 7.11 min Scan# 1298
Delta R.T. -0.01 min
Lab File: VL033973.D
Acq: 26 Jun 2019 18:43

Tgt Ion: 117 Resp: 8955
Ion Ratio Lower Upper
117 100
119 87.2 74.6 111.8
121 19.0 24.0 36.0#





#36

Benzene

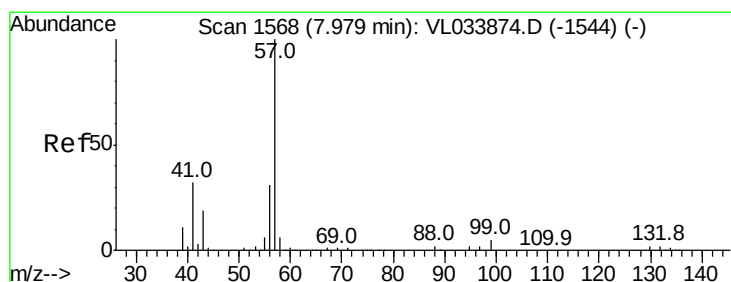
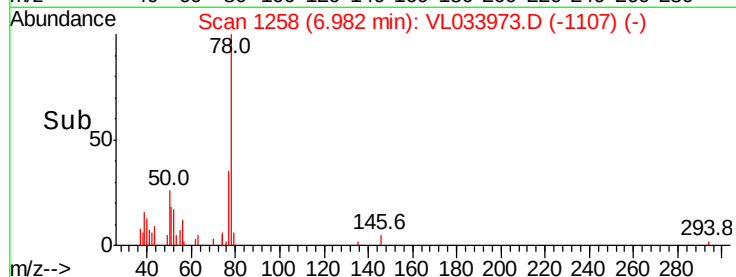
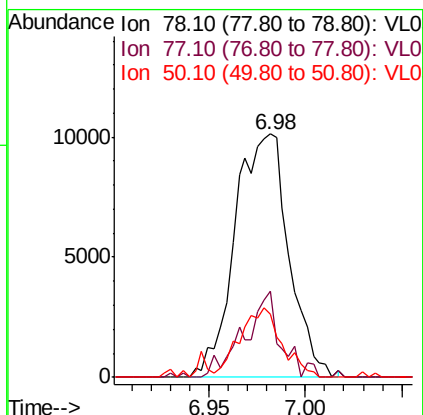
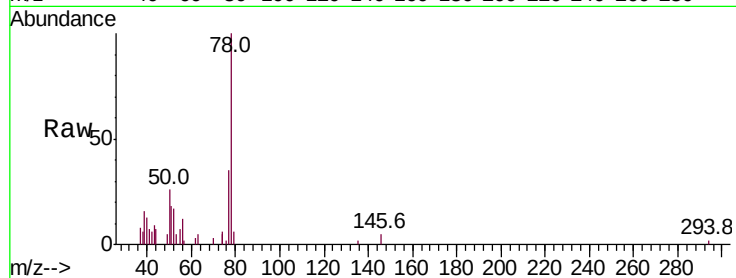
Concen: 0.165 ppbv m
RT: 6.98 min Scan# 1258
Delta R.T. -0.01 min
Lab File: VL033973.D
Acq: 26 Jun 2019 18:43

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AIRDUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	35.1	18.2	27.2#
50	26.1	15.9	23.9#

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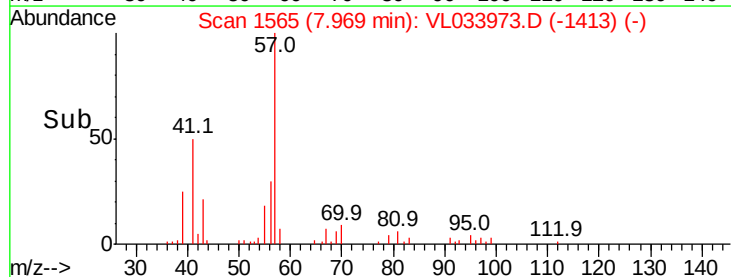
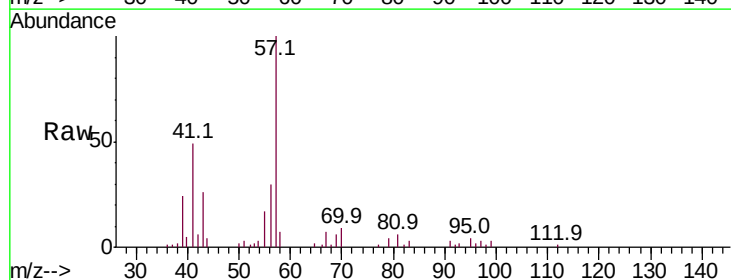
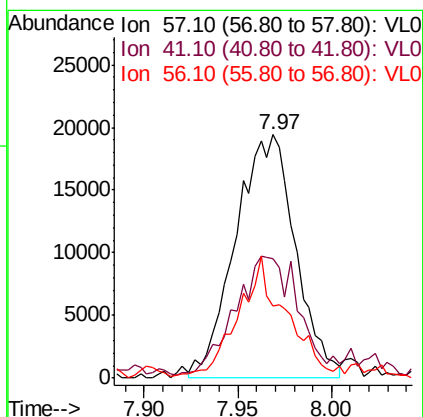


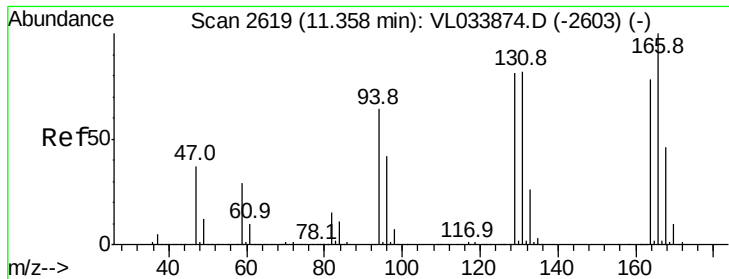
#44

2,2,4-Trimethylpentane

Concen: 0.203 ppbv m
RT: 7.97 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VL033973.D
Acq: 26 Jun 2019 18:43

Tgt Ion	Ratio	Lower	Upper
57	100		
41	62.3	26.1	39.1#
56	43.7	24.6	36.8#





#52

Tetrachloroethene

Concen: 0.042 ppbv m

RT: 11.34 min Scan# 2614

Delta R.T. -0.02 min

Lab File: VL033973.D

Acq: 26 Jun 2019 18:43

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AIRDUP

Tot Ion:164 Resp: 1779

Ion Ratio Lower Upper

164 100

166 147.4 103.1 154.7

129 0.0 83.9 125.9#

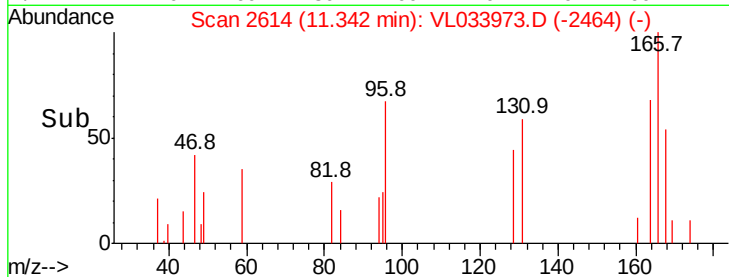
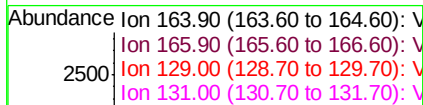
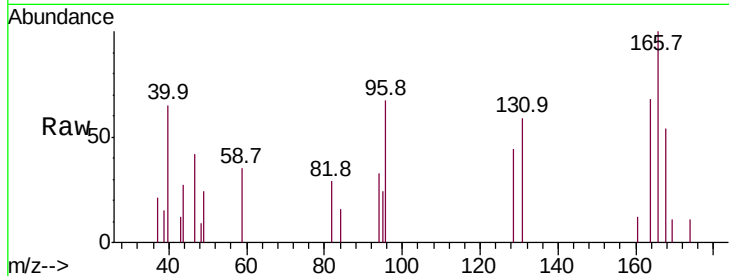
131 87.3 85.1 127.7

Manual Integrations

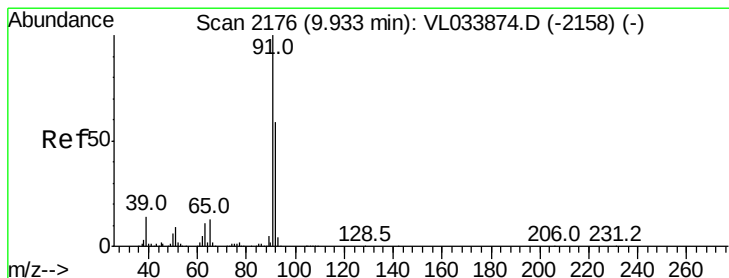
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Time-->



#53

Toluene

Concen: 2.582 ppbv

RT: 9.92 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL033973.D

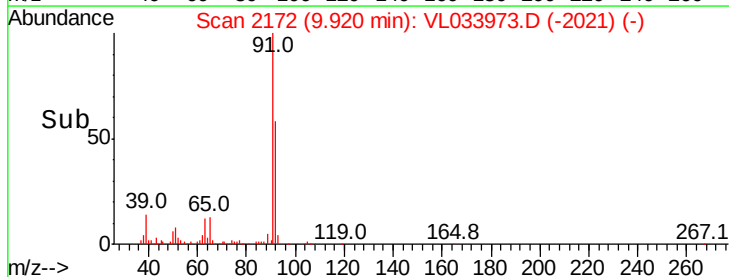
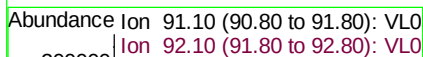
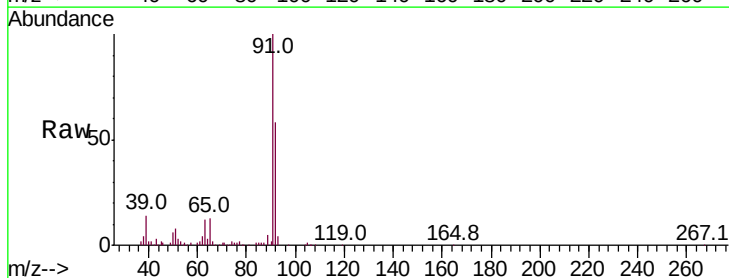
Acq: 26 Jun 2019 18:43

Tgt Ion: 91 Resp: 342484

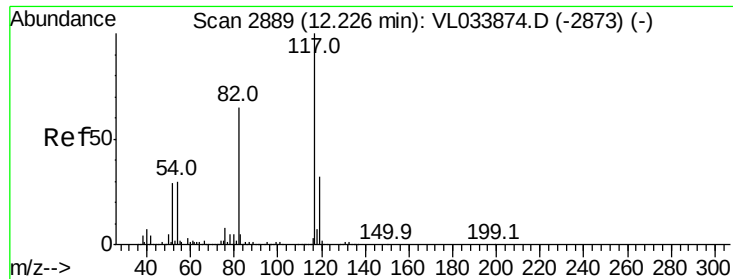
Ion Ratio Lower Upper

91 100

92 59.7 47.0 70.6



Time-->



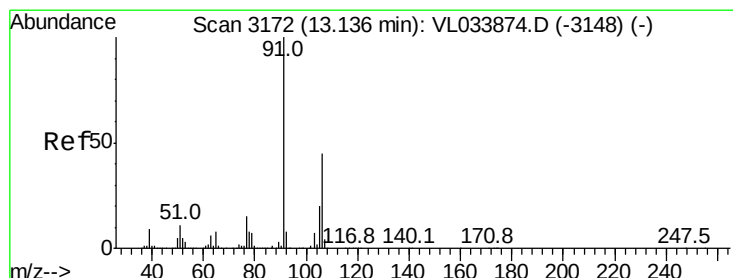
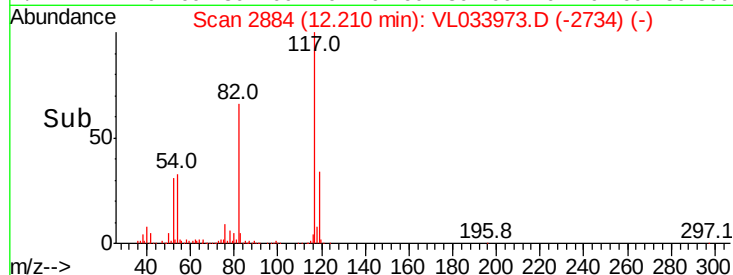
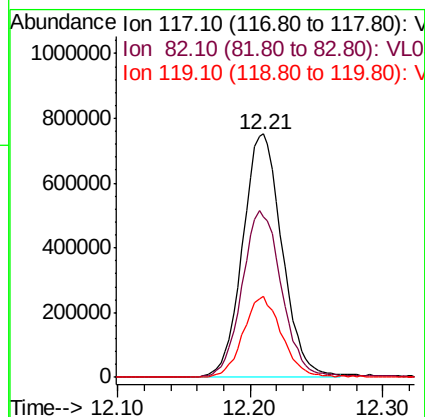
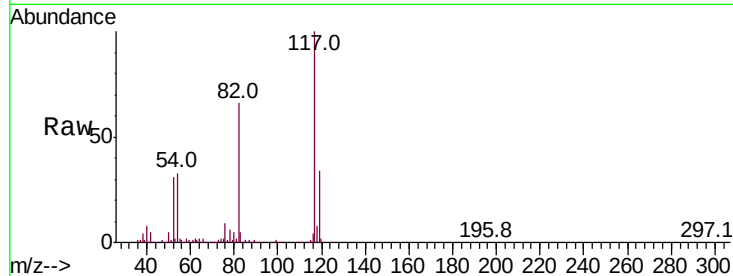
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.21 min Scan# 2884
Delta R.T. -0.02 min
Lab File: VL033973.D
Acq: 26 Jun 2019 18:43

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AIRDUP

Tot Ion:117 Resp: 1553617
Ion Ratio Lower Upper
117 100
82 70.0 50.2 75.2
119 33.1 24.8 37.2

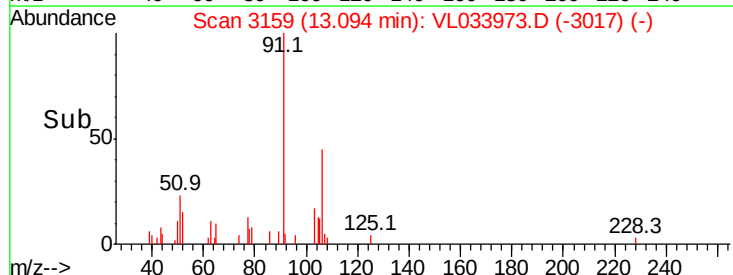
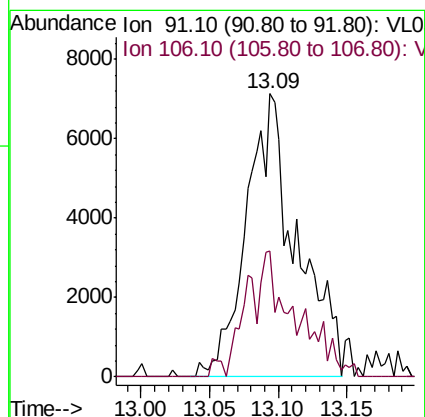
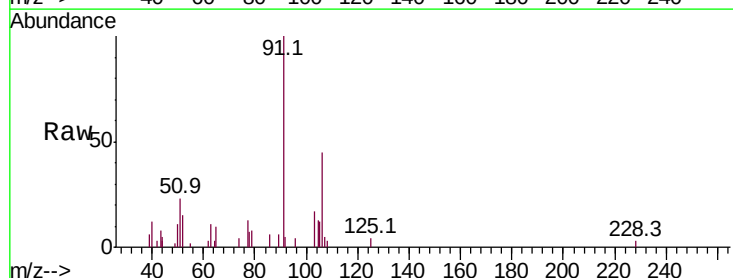
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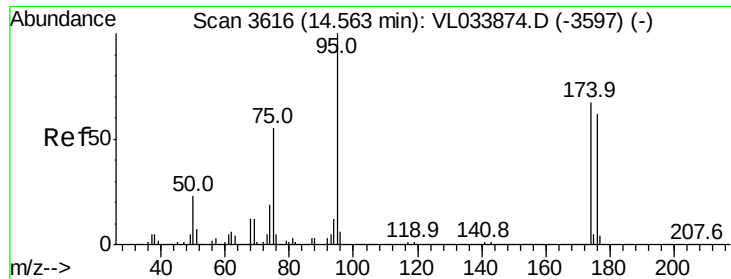
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#59
m/p-Xylene
Concen: 0.114 ppbv m
RT: 13.09 min Scan# 3159
Delta R.T. -0.04 min
Lab File: VL033973.D
Acq: 26 Jun 2019 18:43

Tgt Ion: 91 Resp: 18140
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.323 ppbv
 RT: 14.54 min Scan# 3610
 Delta R.T. -0.02 min
 Lab File: VL033973.D
 Acq: 26 Jun 2019 18:43

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-AIRDUP

Tot Ion: 95 Resp: 1317347
 Ion Ratio Lower Upper
 95 100
 174 67.3 54.0 81.0
 175 4.8 3.8 5.8

Manual Integrations
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