

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

Quant Time: Jun 27 01:24:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
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%

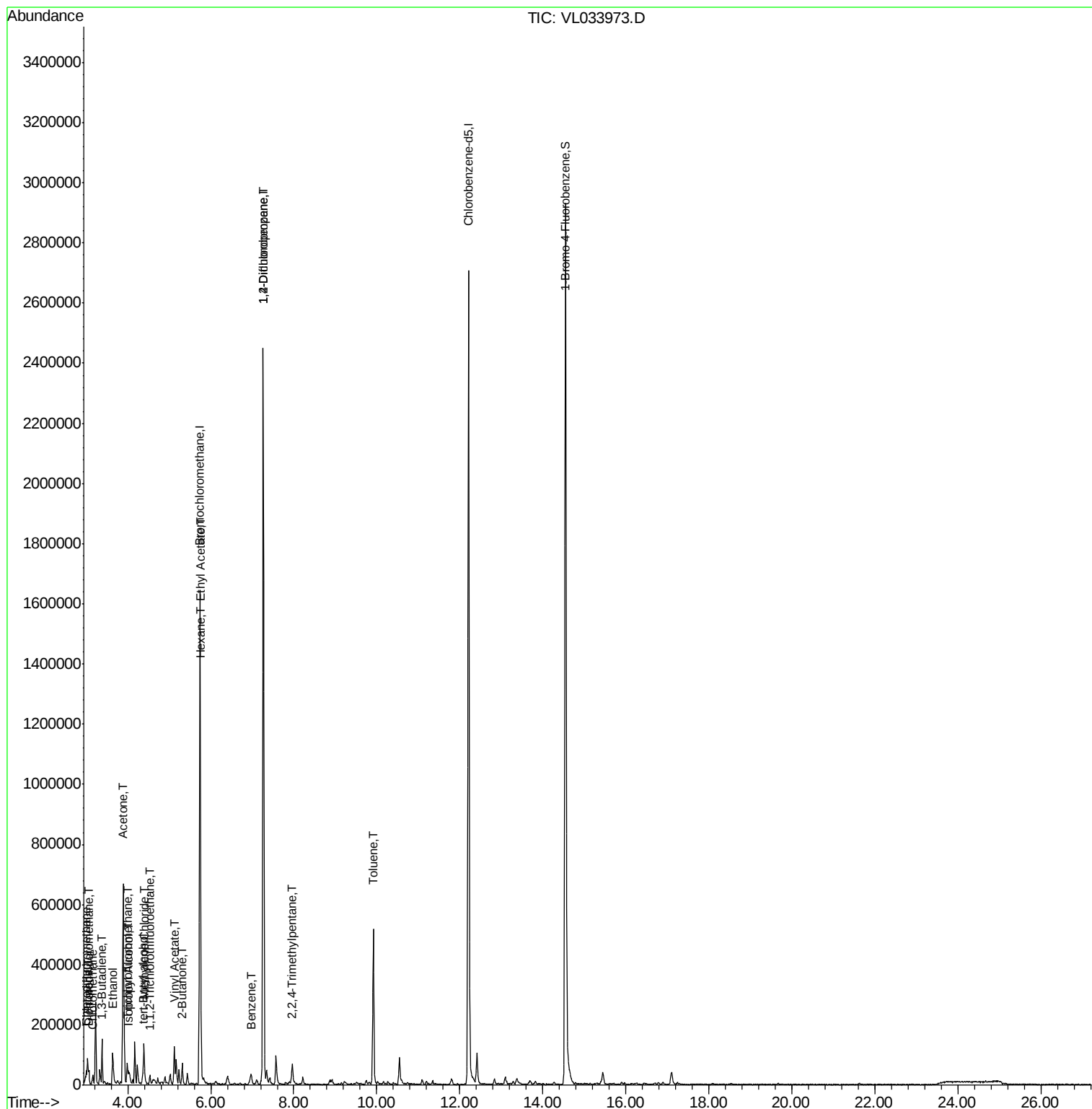
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	28076	0.261	ppbv	89
3) Chlorodifluoromethane	3.00	51	50387	0.646	ppbv #	90
4) Chloromethane	3.16	50	14340	0.323	ppbv	99
9) Propene	3.03	41	18730	0.642	ppbv	84
11) Trichlorofluoromethane	3.99	101	39335	0.284	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.53	101	6584	0.070	ppbv #	71
13) Ethanol	3.64	45	110573	11.653	ppbv	96
15) Acetone	3.89	43	684224	7.086	ppbv	99
16) 1,3-Butadiene	3.36	39	1244	0.034	ppbv #	30
17) tert-Butyl alcohol	4.36	59	8684	0.115	ppbv #	72
19) Isopropyl Alcohol	4.02	45	38761	0.703	ppbv #	94
20) Methylene Chloride	4.39	84	44557	1.183	ppbv	91
23) Vinyl Acetate	5.12	43	95381	0.850	ppbv #	86
25) Ethyl Acetate	5.75	43	67295	0.458	ppbv #	90
26) Hexane	5.76	57	65312	0.975	ppbv #	47
34) 2-Butanone	5.32	43	73262	0.828	ppbv	98
36) Benzene	6.98	78	12010	0.100	ppbv #	80
39) 1,2-Dichloropropane	7.26	63	417316	9.020	ppbv #	26
44) 2,2,4-Trimethylpentane	7.96	57	24372	0.114	ppbv #	1
53) Toluene	9.92	91	342484	2.582	ppbv	99

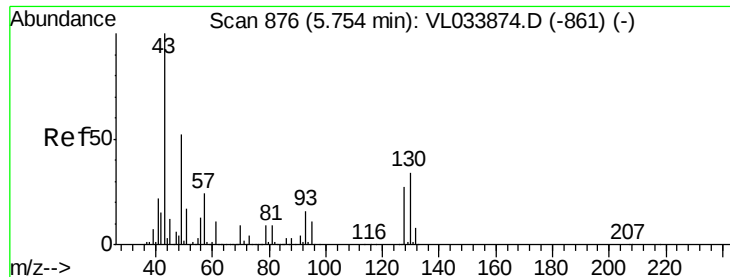
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 871

Delta R.T. -0.02 min

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Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AIRDUP

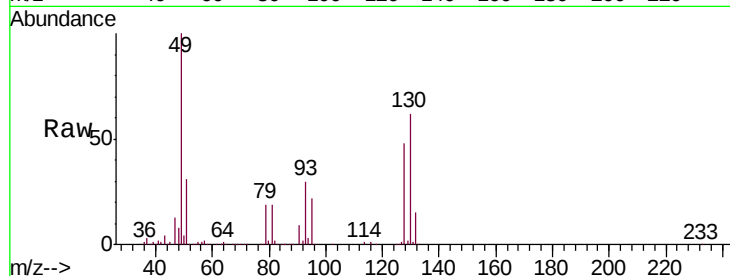
Tgt Ion: 49 Resp: 662075

Ion Ratio Lower Upper

49 100

128 50.3 25.5 76.5

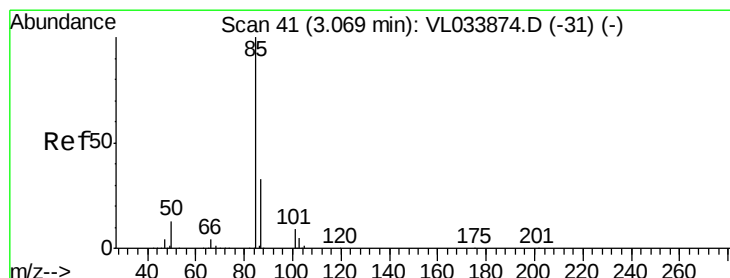
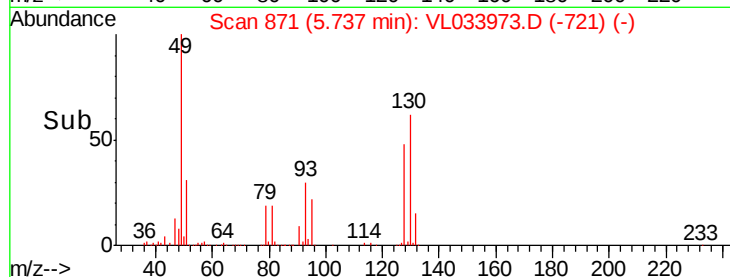
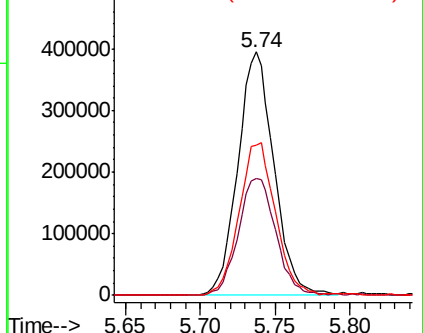
130 63.9 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.261 ppbv

RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL033973.D

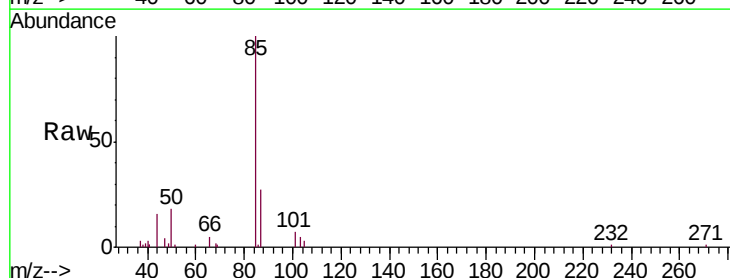
Acq: 26 Jun 2019 18:43

Tgt Ion: 85 Resp: 28076

Ion Ratio Lower Upper

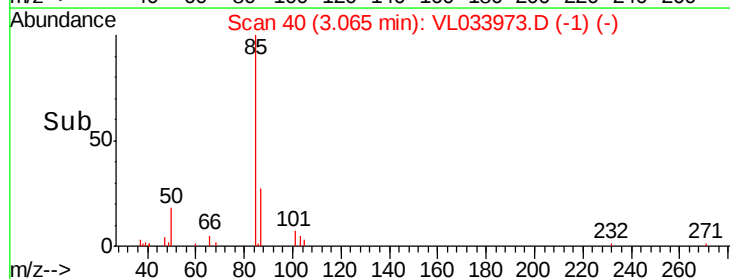
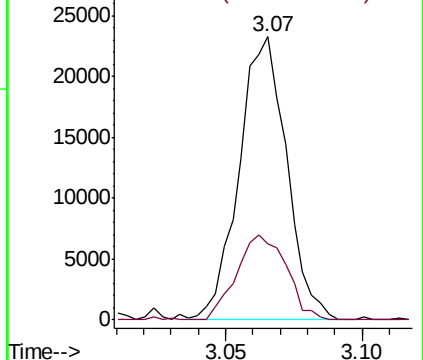
85 100

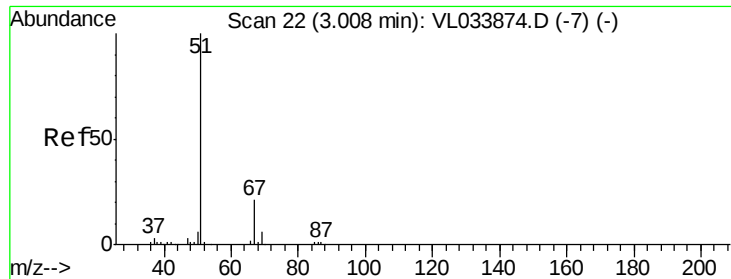
87 27.0 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

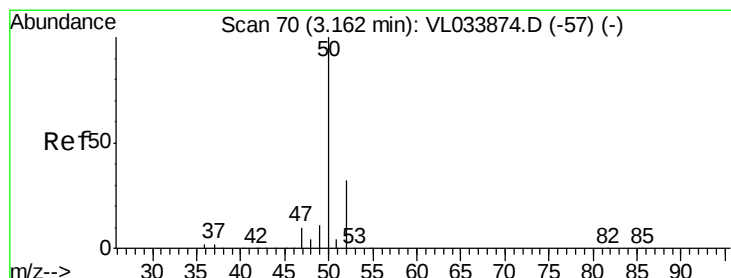
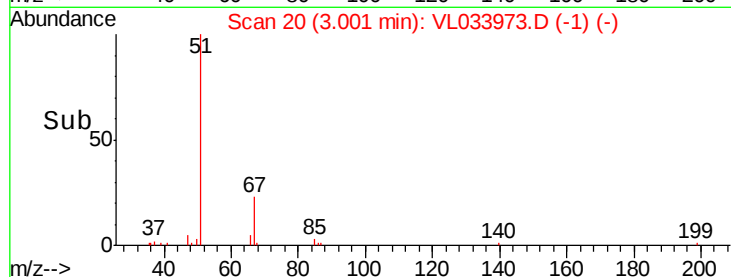
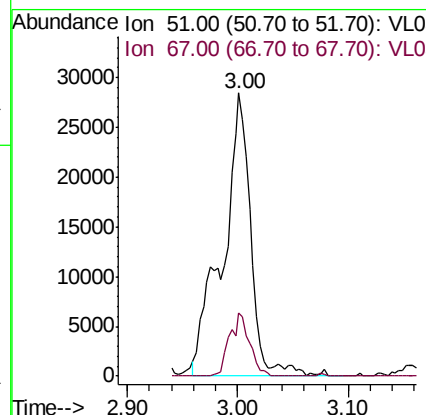
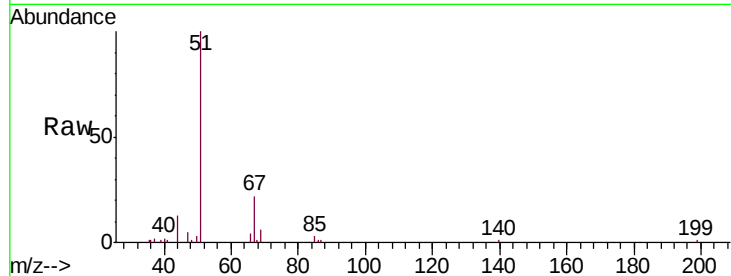




#3
 Chlorodifluoromethane
 Concen: 0.646 ppbv
 RT: 3.00 min Scan# 20
 Delta R.T. -0.01 min
 Lab File: VL033973.D
 Acq: 26 Jun 2019 18:43

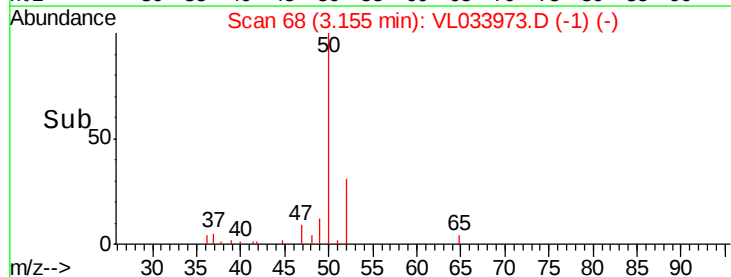
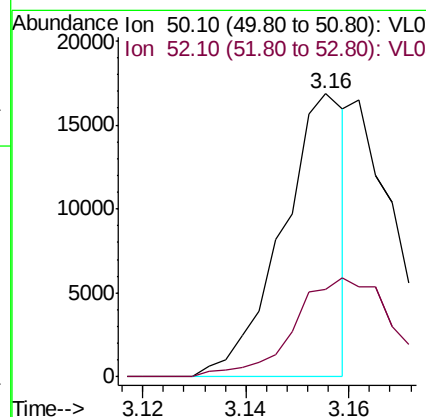
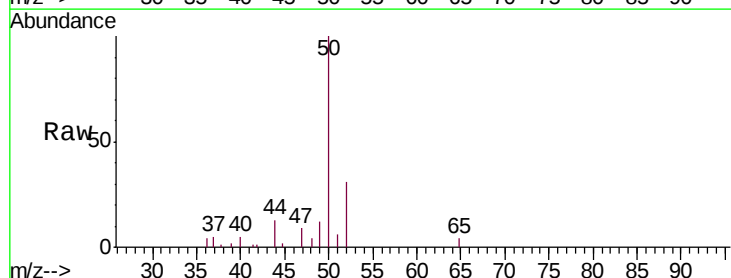
Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-AIRDUP

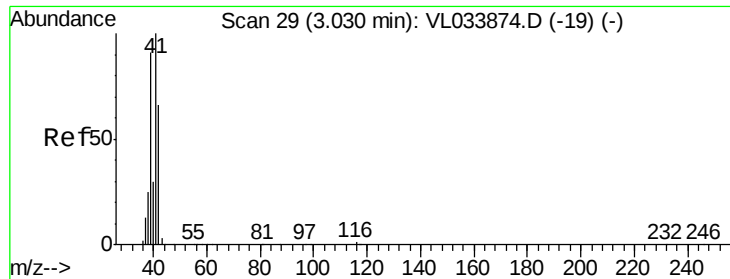
Tgt Ion: 51 Resp: 50387
 Ion Ratio Lower Upper
 51 100
 67 15.8 16.4 24.6#



#4
 Chloromethane
 Concen: 0.323 ppbv
 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: 14340
 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 :

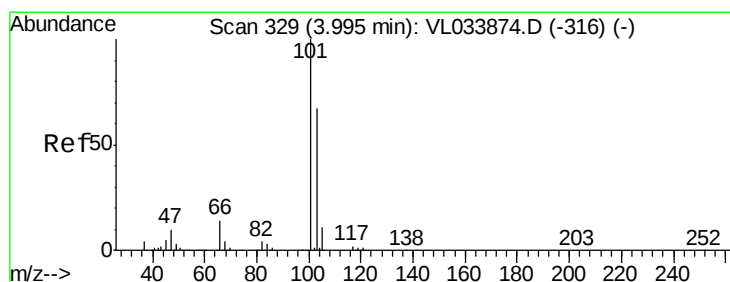
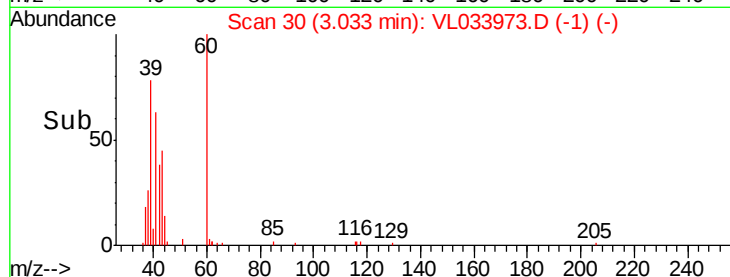
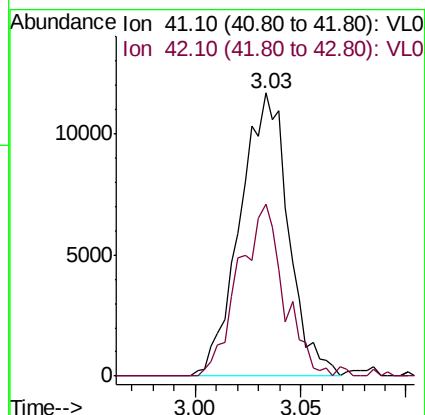
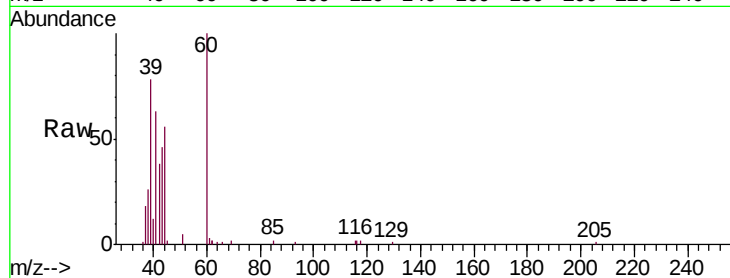
OUTDOOR-AIRDUP

Tgt Ion: 41 Resp: 18730

Ion Ratio Lower Upper

41 100

42 57.1 56.3 84.5



#11

Trichlorofluoromethane

Concen: 0.284 ppbv

RT: 3.99 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL033973.D

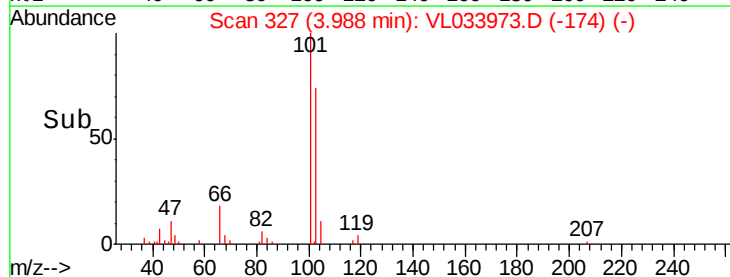
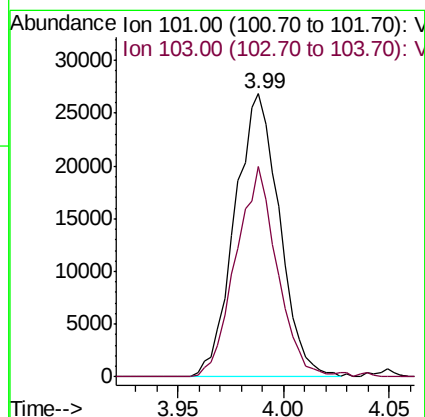
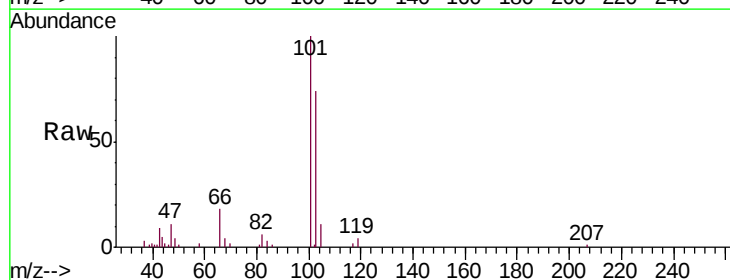
Acq: 26 Jun 2019 18:43

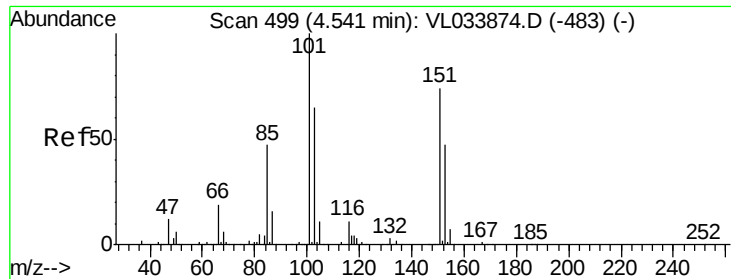
Tgt Ion: 101 Resp: 39335

Ion Ratio Lower Upper

101 100

103 74.4 53.6 80.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.070 ppbv

RT: 4.53 min Scan# 496

Delta R.T. -0.01 min

Lab File: VL033973.D

Acq: 26 Jun 2019 18:43

Instrument :

MSVOA_L

ClientSampleId :

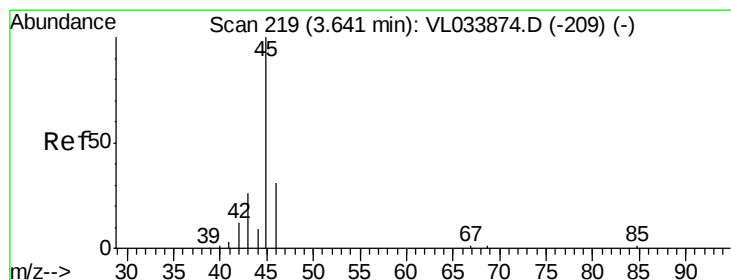
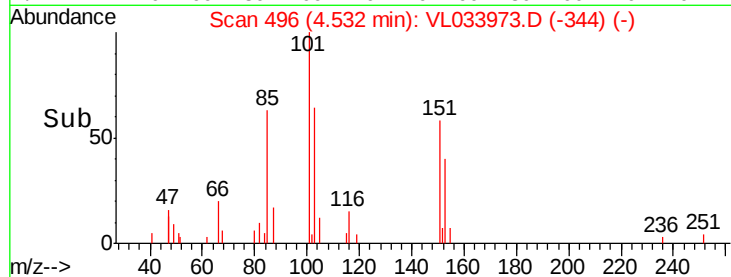
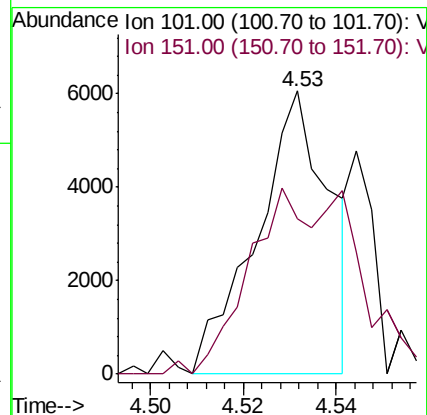
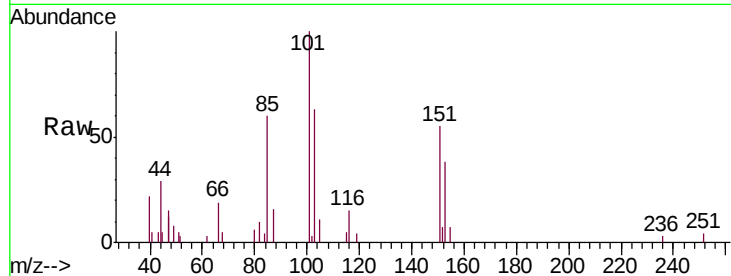
OUTDOOR-AIRDUP

Tgt Ion:101 Resp: 6584

Ion Ratio Lower Upper

101 100

151 97.3 58.6 87.8#



#13

Ethanol

Concen: 11.653 ppbv

RT: 3.64 min Scan# 218

Delta R.T. -0.00 min

Lab File: VL033973.D

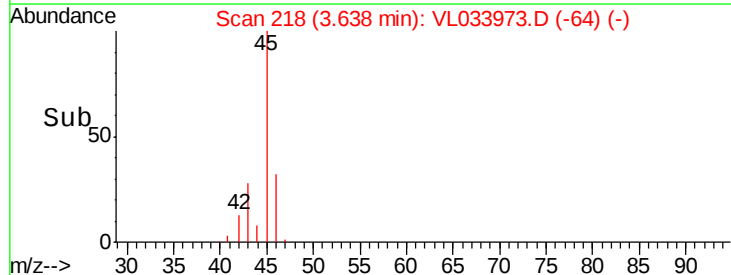
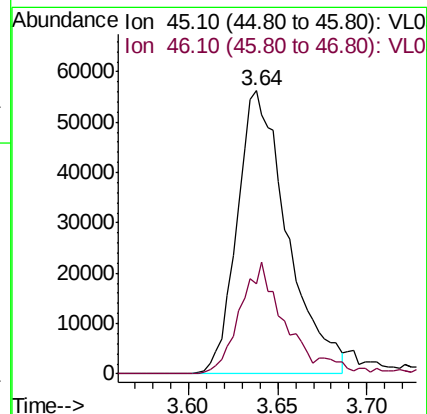
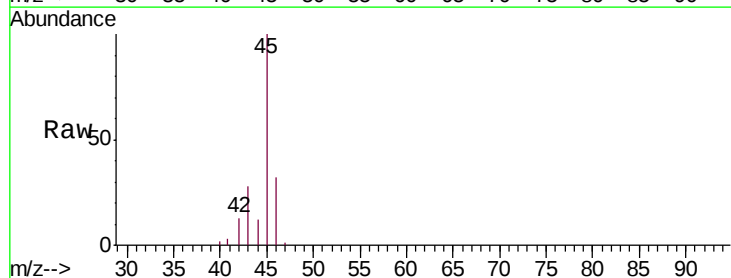
Acq: 26 Jun 2019 18:43

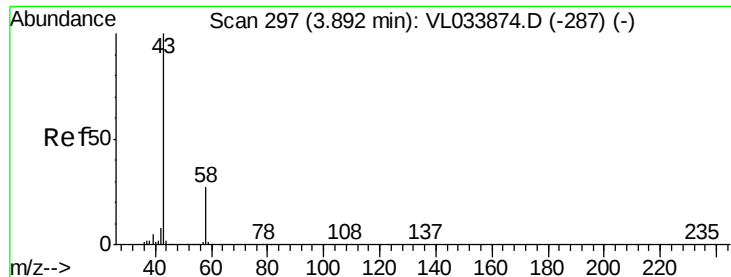
Tgt Ion: 45 Resp: 110573

Ion Ratio Lower Upper

45 100

46 36.0 15.3 61.1





#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

Instrument :

MSVOA_L

ClientSampleId :

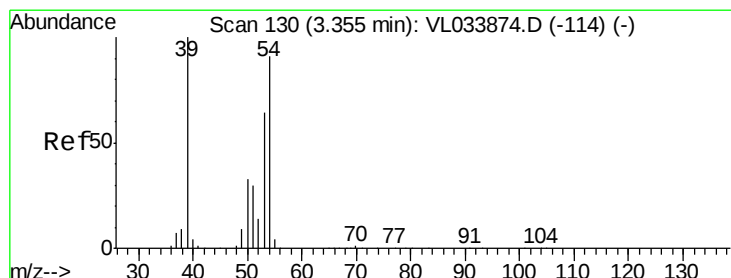
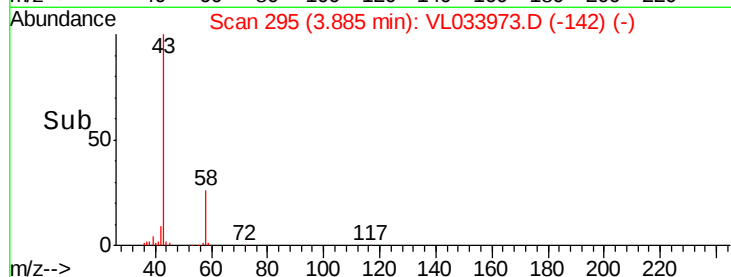
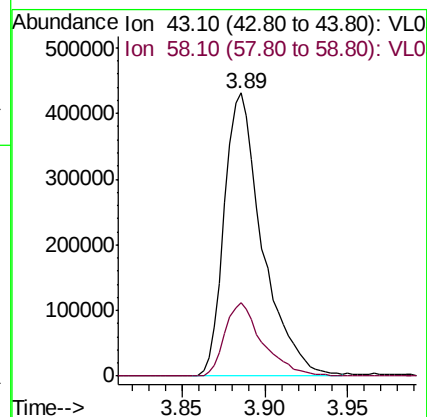
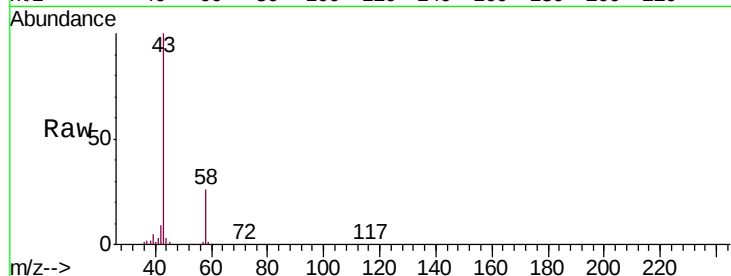
OUTDOOR-AIRDUP

Tgt Ion: 43 Resp: 684224

Ion Ratio Lower Upper

43 100

58 25.9 21.3 31.9



#16

1,3-Butadiene

Concen: 0.034 ppbv

RT: 3.36 min Scan# 131

Delta R.T. 0.00 min

Lab File: VL033973.D

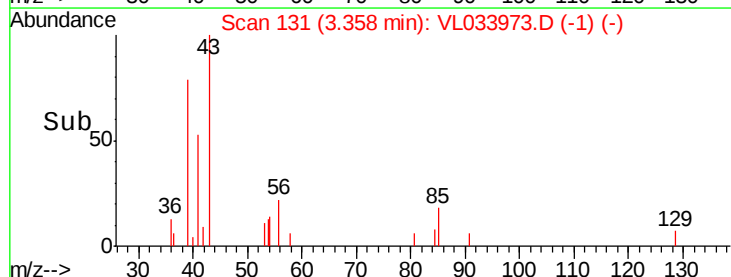
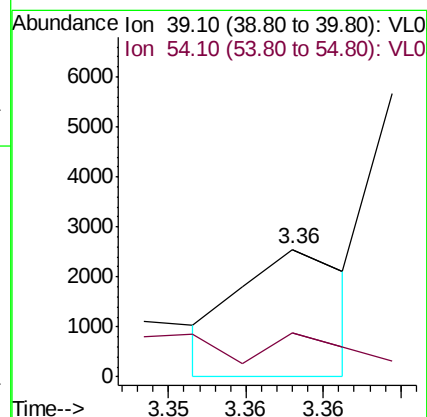
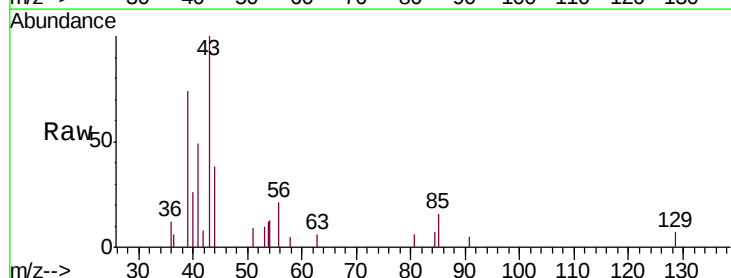
Acq: 26 Jun 2019 18:43

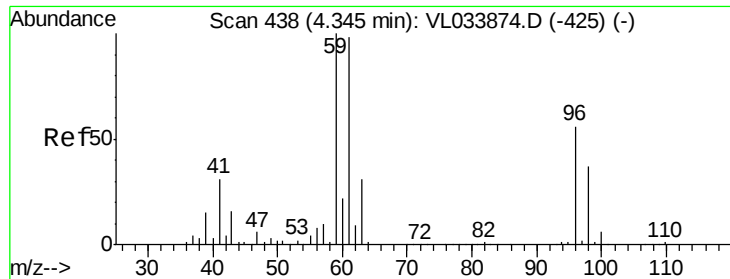
Tgt Ion: 39 Resp: 1244

Ion Ratio Lower Upper

39 100

54 150.2 68.6 103.0#





#17

tert-Butyl alcohol

Concen: 0.115 ppbv

RT: 4.36 min Scan# 444

Delta R.T. 0.02 min

Lab File: VL033973.D

Acq: 26 Jun 2019 18:43

Instrument :

MSVOA_L

ClientSampleId :

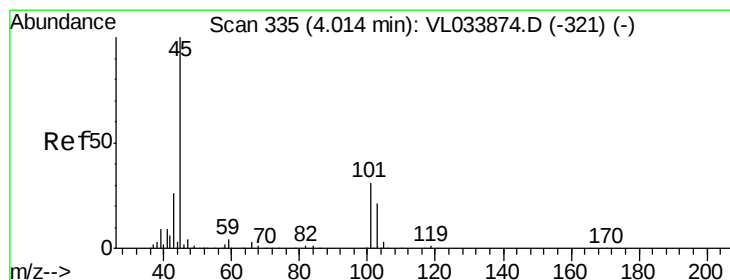
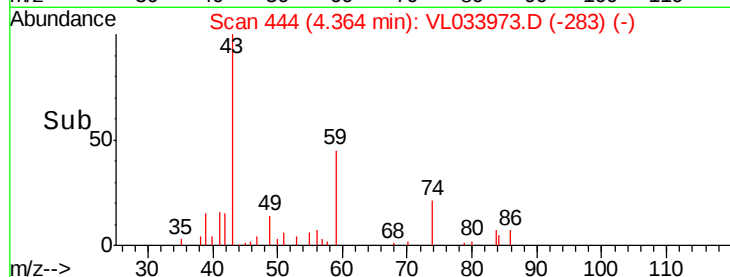
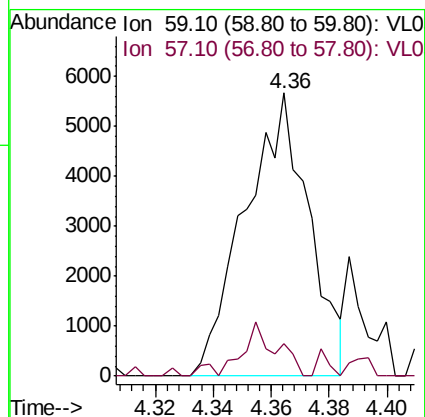
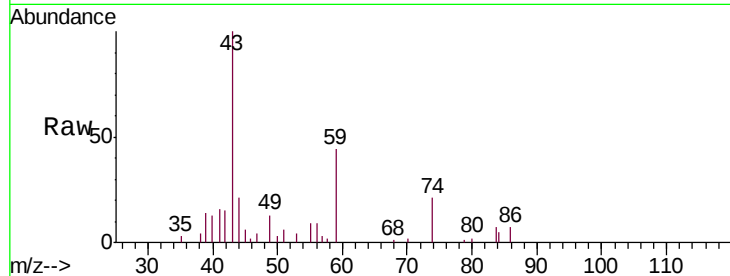
OUTDOOR-AIRDUP

Tgt Ion: 59 Resp: 8684

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 0.703 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL033973.D

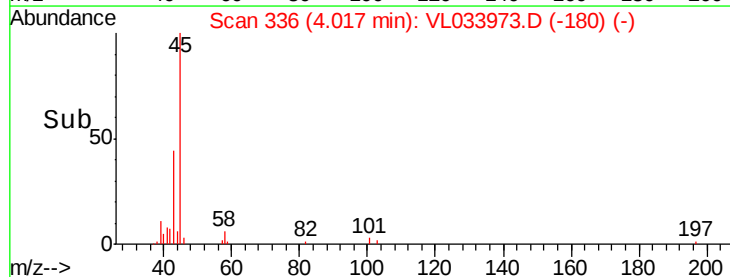
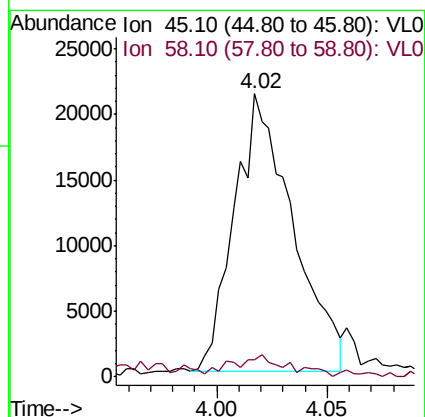
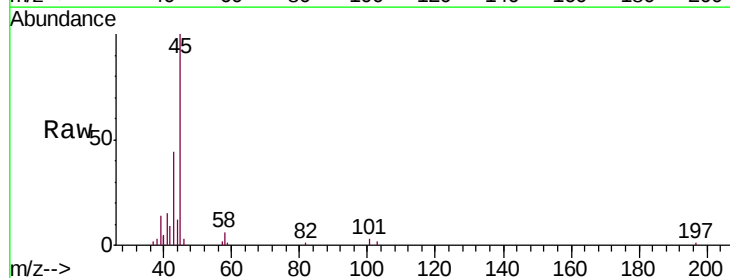
Acq: 26 Jun 2019 18:43

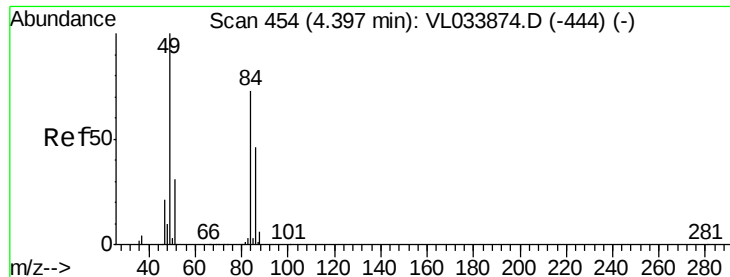
Tgt Ion: 45 Resp: 38761

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.6#

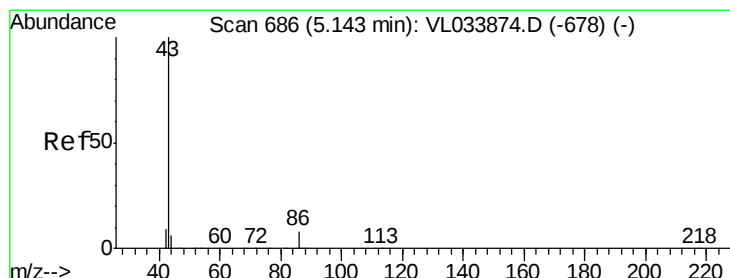
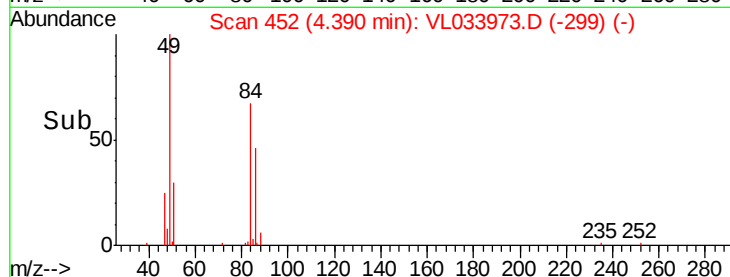
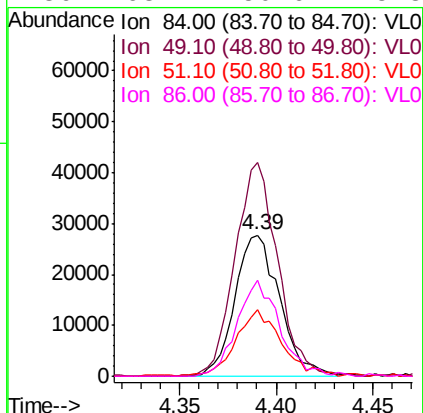
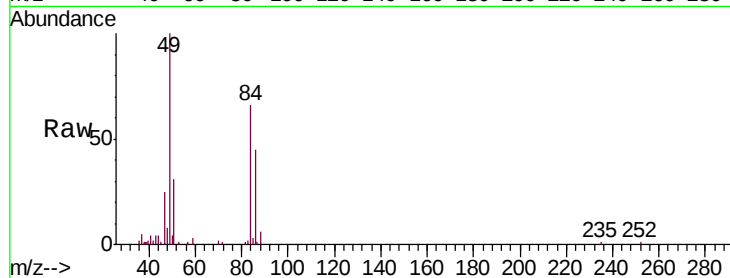




#20
Methylene Chloride
Concen: 1.183 ppbv
RT: 4.39 min Scan# 452
Delta R.T. -0.01 min
Lab File: VL033973.D
Acq: 26 Jun 2019 18:43

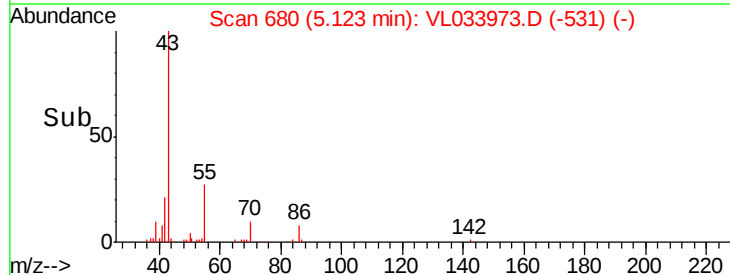
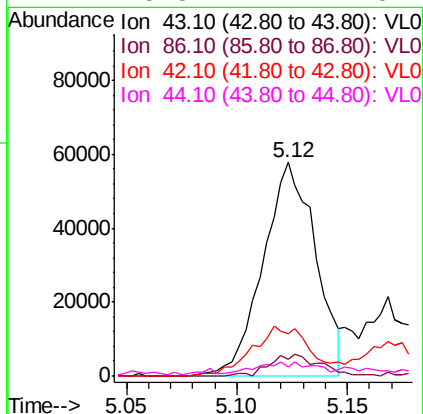
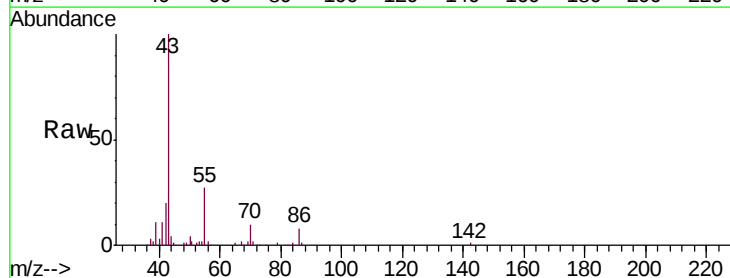
Instrument :
MSVOA_L
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OUTDOOR-AIRDUP

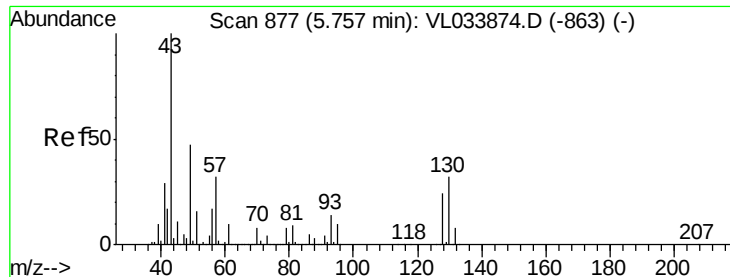
Tgt Ion:	84	Resp:	44557
Ion	Ratio	Lower	Upper
84	100		
49	149.9	110.0	165.0
51	47.3	34.6	51.8
86	68.1	50.6	75.8



#23
Vinyl Acetate
Concen: 0.850 ppbv
RT: 5.12 min Scan# 680
Delta R.T. -0.02 min
Lab File: VL033973.D
Acq: 26 Jun 2019 18:43

Tgt Ion:	43	Resp:	95381
Ion	Ratio	Lower	Upper
43	100		
86	8.2	5.8	8.8
42	20.0	7.8	11.8#
44	3.3	4.2	6.4#





#25

Ethyl Acetate

Concen: 0.458 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.00 min

Lab File: VL033973.D

Acq: 26 Jun 2019 18:43

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AIRDUP

Tgt Ion: 43 Resp: 67295

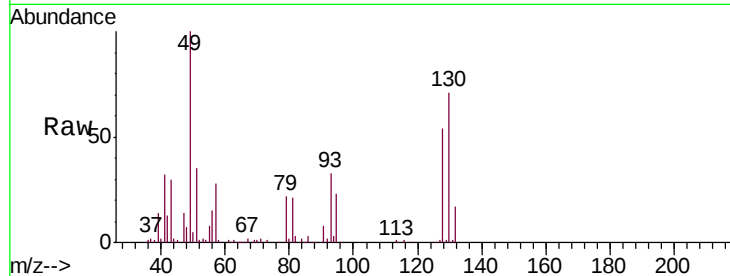
Ion Ratio Lower Upper

43 100

45 6.7 7.9 11.9#

61 4.3 7.8 11.6#

70 5.5 5.8 8.6#

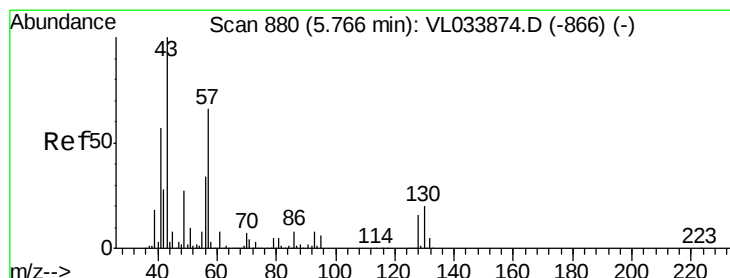
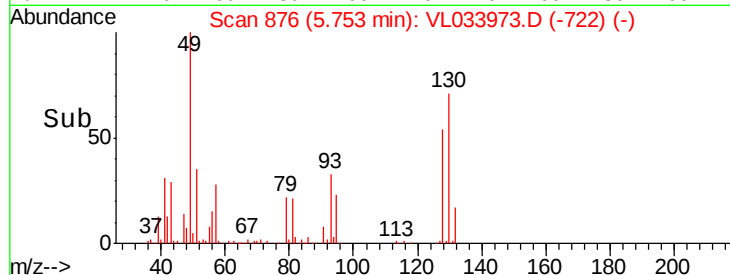
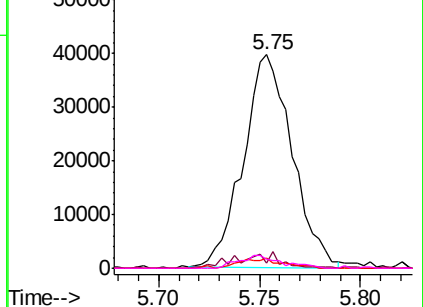


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#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

Tgt Ion: 57 Resp: 65312

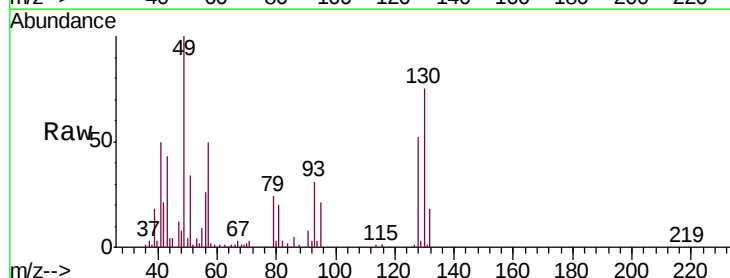
Ion Ratio Lower Upper

57 100

41 111.1 71.4 107.2#

43 105.2 183.7 275.5#

56 60.6 42.7 64.1

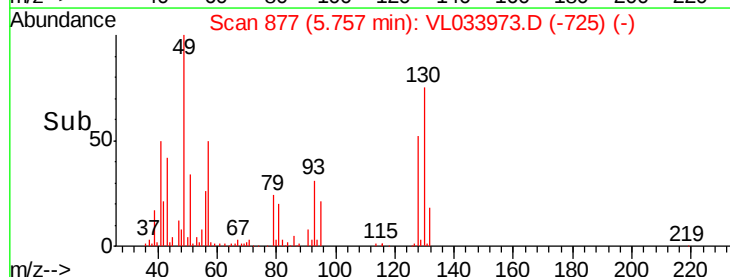
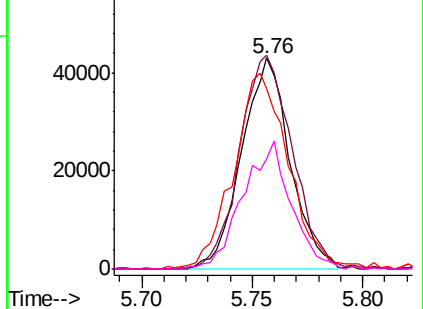


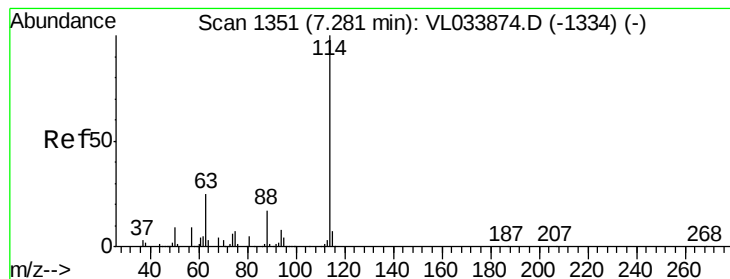
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#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

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AIRDUP

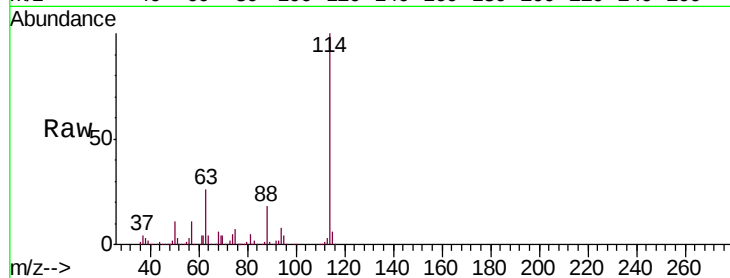
Tgt Ion:114 Resp: 1569216

Ion Ratio Lower Upper

114 100

63 26.7 21.1 31.7

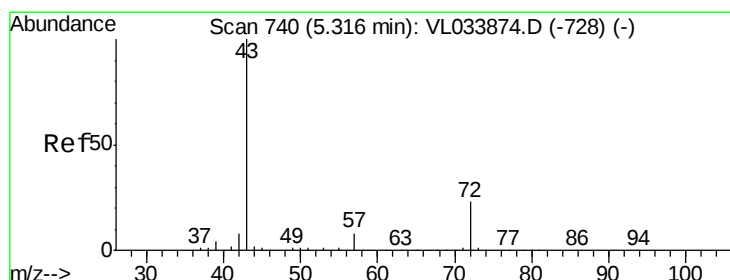
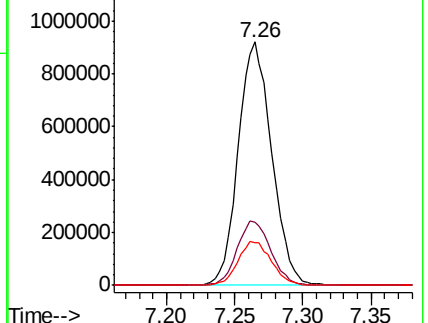
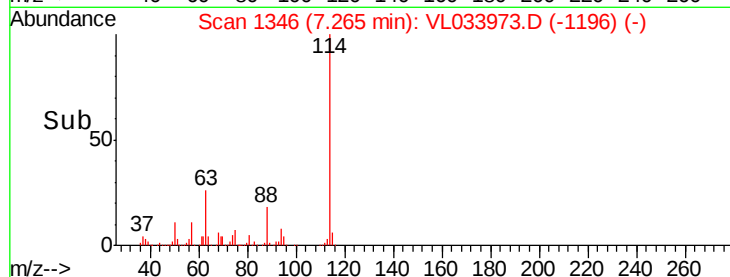
88 18.2 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.828 ppbv

RT: 5.32 min Scan# 740

Delta R.T. -0.00 min

Lab File: VL033973.D

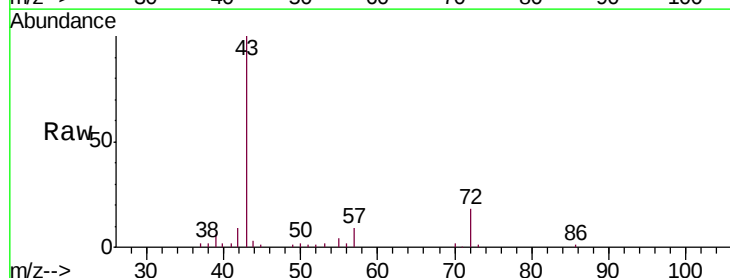
Acq: 26 Jun 2019 18:43

Tgt Ion: 43 Resp: 73262

Ion Ratio Lower Upper

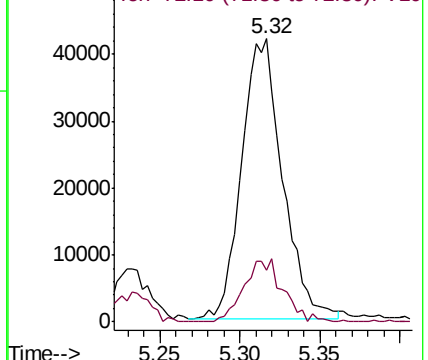
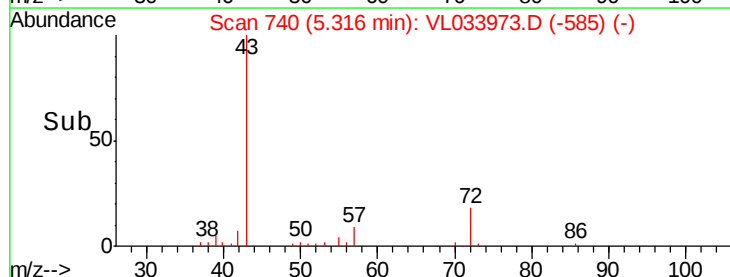
43 100

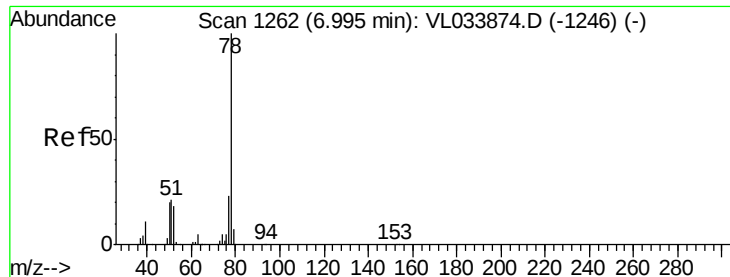
72 21.4 17.9 26.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.100 ppbv

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

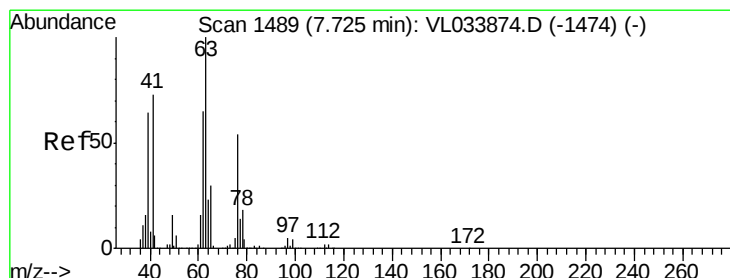
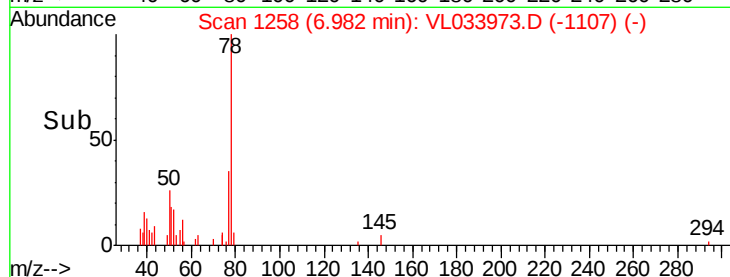
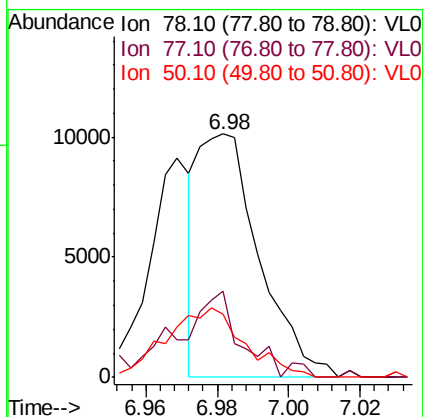
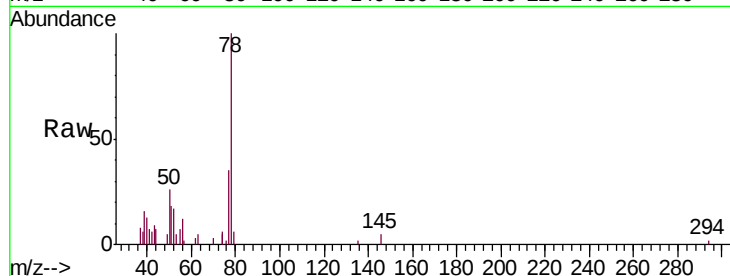
Tgt Ion: 78 Resp: 12010

Ion Ratio Lower Upper

78 100

77 35.1 18.2 27.2#

50 26.1 15.9 23.9#



#39

1,2-Dichloropropane

Concen: 9.020 ppbv

RT: 7.26 min Scan# 1345

Delta R.T. -0.46 min

Lab File: VL033973.D

Acq: 26 Jun 2019 18:43

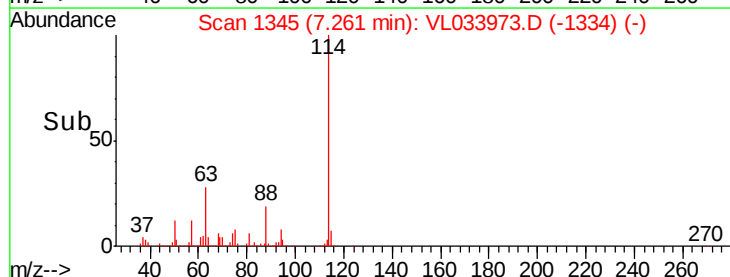
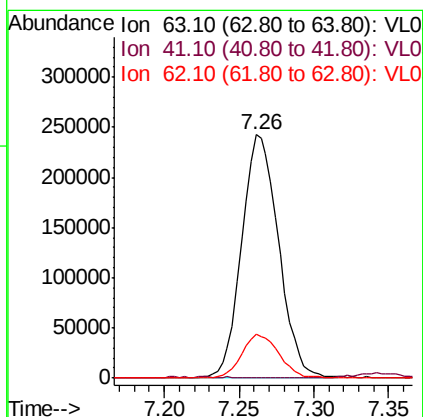
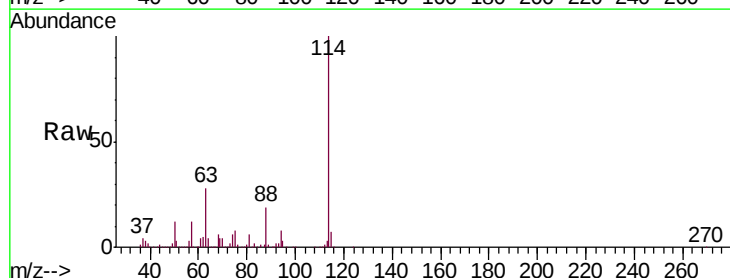
Tgt Ion: 63 Resp: 417316

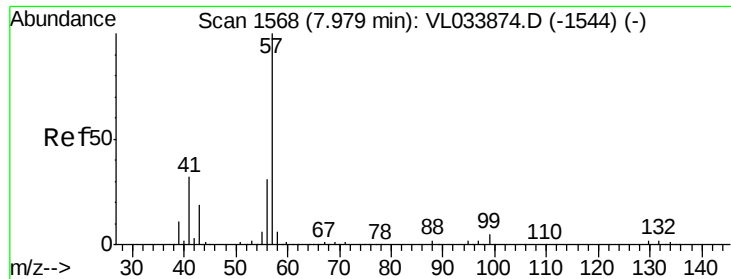
Ion Ratio Lower Upper

63 100

41 0.0 58.7 88.1#

62 18.3 51.9 77.9#

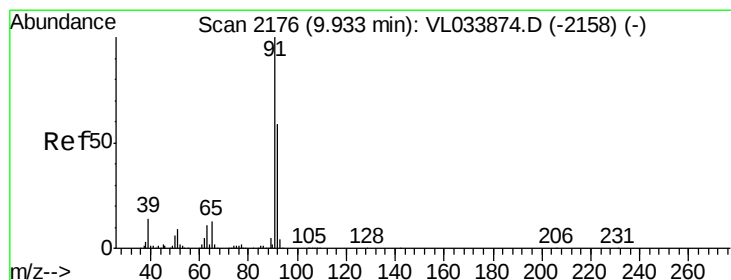
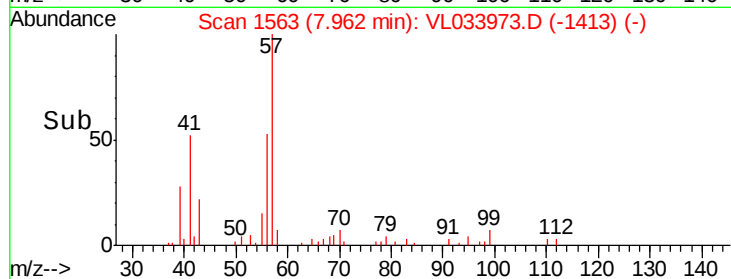
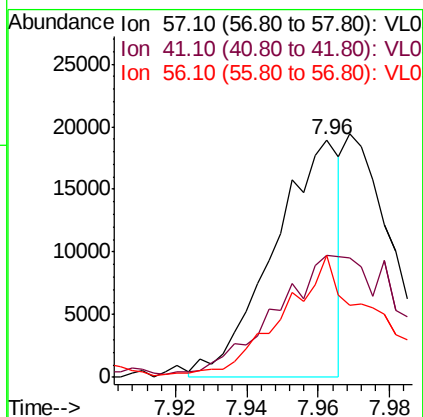
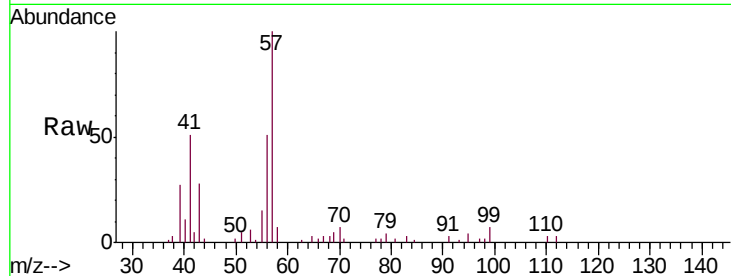




#44
 2,2,4-Trimethylpentane
 Concen: 0.114 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.02 min
 Lab File: VL033973.D
 Acq: 26 Jun 2019 18:43

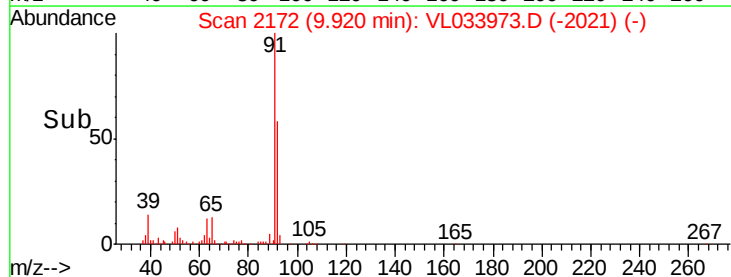
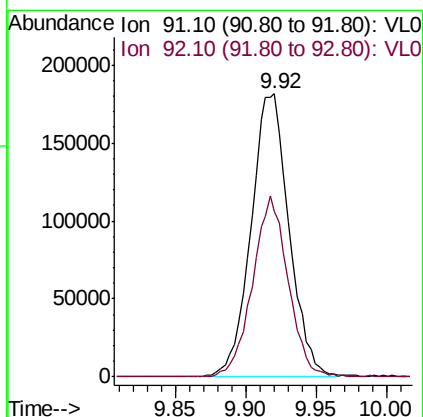
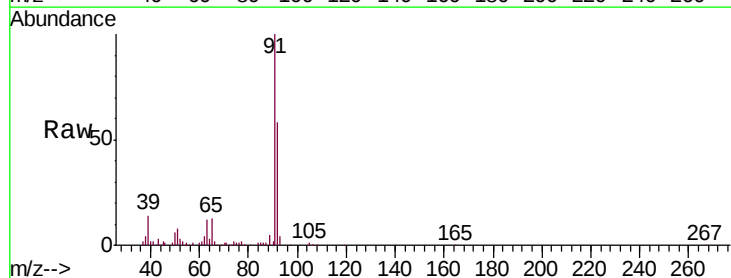
Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-AIRDUP

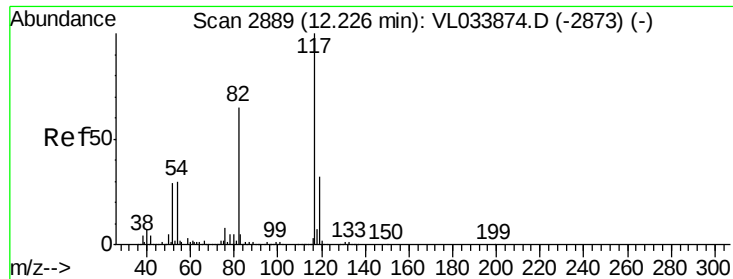
Tgt Ion: 57 Resp: 24372
 Ion Ratio Lower Upper
 57 100
 41 110.7 26.1 39.1#
 56 77.6 24.6 36.8#



#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

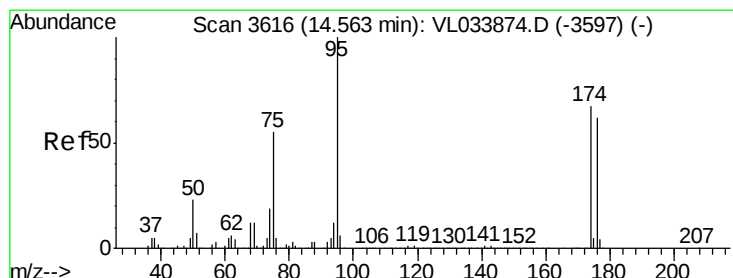
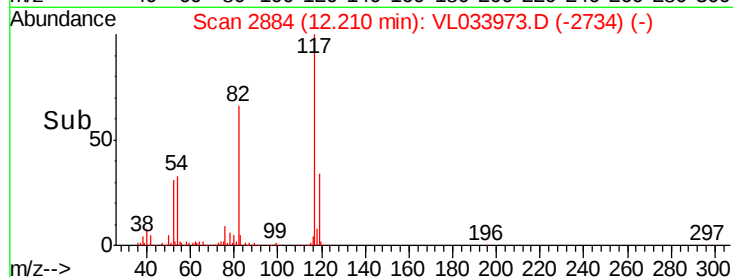
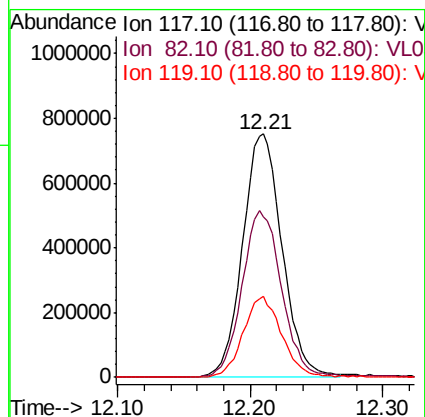
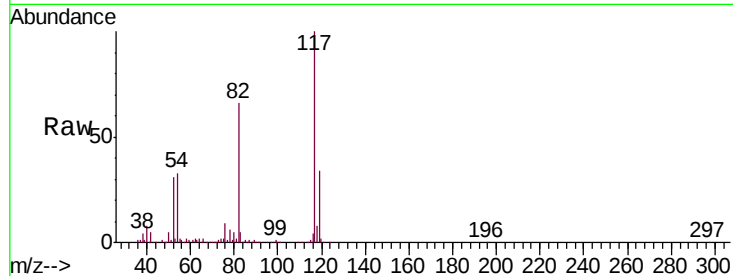




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.21 min Scan# 2884
Delta R.T. -0.02 min
Lab File: VL033973.D
Acq: 26 Jun 2019 18:43

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AIRDUP

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



#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

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

