

Data File : VL032242.D
Acq On : 13 Jul 2018 8:16
Operator : SY/AP
Sample : J3753-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Quant Time: Jul 13 09:35:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 04:25:14 2018
QLast Update : Fri Jul 13 04:25:14 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1639994	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	3575079	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.34	117	4187466	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	3157499	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.13	85	24038	0.102	ppbv	89
3) Chlorodifluoromethane	3.06	51	151689	0.753	ppbv #	80
4) Chloromethane	3.22	50	44264	0.386	ppbv	91
7) Chloroethane	3.66	64	51080	1.313	ppbv	92
9) Propene	3.09	41	201218	2.342	ppbv	95
10) Heptane	8.33	43	275741	1.130	ppbv	99
11) Trichlorofluoromethane	4.07	101	80892	0.358	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.62	101	887413	6.151	ppbv	99
13) Ethanol	3.74	45	11542551	465.467	ppbv	99
15) Acetone	3.96	43	7979736	41.930	ppbv	99
16) 1,3-Butadiene	3.45	39	177327	1.844	ppbv #	7
17) tert-Butyl alcohol	4.46	59	1216433	13.690	ppbv	99
18) 1,1-Dichloroethene	4.41	96	197380	2.940	ppbv	94
19) Isopropyl Alcohol	4.12	45	7421495	59.390	ppbv #	99
20) Methylene Chloride	4.48	84	406625	6.305	ppbv	98
21) Allyl Chloride	4.47	41	161884	1.453	ppbv #	20
22) trans-1,2-Dichloroethene	5.04	96	61447	0.962	ppbv	90
23) Vinyl Acetate	5.22	43	686820	2.170	ppbv #	65
24) 1,1-Dichloroethane	5.17	63	3251642	14.632	ppbv	99
25) Ethyl Acetate	5.85	43	654901	1.739	ppbv #	84
26) Hexane	5.86	57	553582	3.222	ppbv #	60
29) Chloroform	5.93	83	20526	0.077	ppbv	91
30) Cyclohexane	7.33	84	94263	0.622	ppbv	89
31) cis-1,2-Dichloroethene	5.72	61	31493	0.184	ppbv	89
32) 1,1,1-Trichloroethane	6.71	97	17476905	67.911	ppbv	93
34) 2-Butanone	5.40	43	1722719	7.073	ppbv	100
36) Benzene	7.09	78	192571	0.542	ppbv	98
37) 1,2-Dichloroethane	6.71	62	1476613	7.591	ppbv #	1
39) 1,2-Dichloropropane	7.38	63	984278	6.971	ppbv #	28
41) Tetrahydrofuran	6.23	42	107673	0.790	ppbv #	91
42) Bromodichloromethane	8.01	83	8086	0.029	ppbv #	33
43) Methyl Methacrylate	8.23	69	7757	0.056	ppbv #	1
44) 2,2,4-Trimethylpentane	8.08	57	1742053	2.851	ppbv	96
50) 4-Methyl-2-Pentanone	8.97	43	284341	0.675	ppbv	95
51) 2-Hexanone	10.36	43	48011	0.136	ppbv #	28
52) Tetrachloroethene	11.48	164	7228	0.055	ppbv #	76
53) Toluene	10.04	91	2336265	5.562	ppbv	99
57) Chlorobenzene	12.40	112	11845	0.033	ppbv #	89
58) Ethyl Benzene	12.96	91	676663	1.110	ppbv	96
59) m/p-Xylene	13.21	91	2032960	4.052	ppbv	100
60) o-Xylene	13.94	91	824548	1.666	ppbv	100

Data File : VL032242.D
Acq On : 13 Jul 2018 8:16
Operator : SY/AP
Sample : J3753-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Quant Time: Jul 13 09:35:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 04:25:14 2018
QLast Update : Fri Jul 13 04:25:14 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) Styrene	13.78	104	21277	0.057	ppbv #	8
62) Isopropylbenzene	14.92	105	49186	0.071	ppbv #	87
64) n-propylbenzene	15.82	120	13614	0.077	ppbv #	1
65) tert-Butylbenzene	17.02	119	92476	0.159	ppbv #	69
66) Benzyl Chloride	17.02	91	96748	0.329	ppbv #	67
69) p-Isopropyltoluene	17.91	119	1629026	2.462	ppbv	100
70) n-Butylbenzene	18.81	91	21133	0.029	ppbv #	12
71) 2-Chlorotoluene	15.81	91	219169	0.401	ppbv #	46
72) 4-Ethyltoluene	16.09	105	268514	0.483	ppbv	99
73) 1,3,5-Trimethylbenzene	16.25	105	215792	0.418	ppbv	88
74) 1,2,4-Trimethylbenzene	17.02	105	867868	1.643	ppbv #	74
75) 1,3-Dichlorobenzene	17.26	146	47834	0.152	ppbv #	22
79) Naphthalene	22.50	128	9208	0.026	ppbv	99
80) Naphthalene,2-methyl-	25.19	142	12340	0.109	ppbv #	82

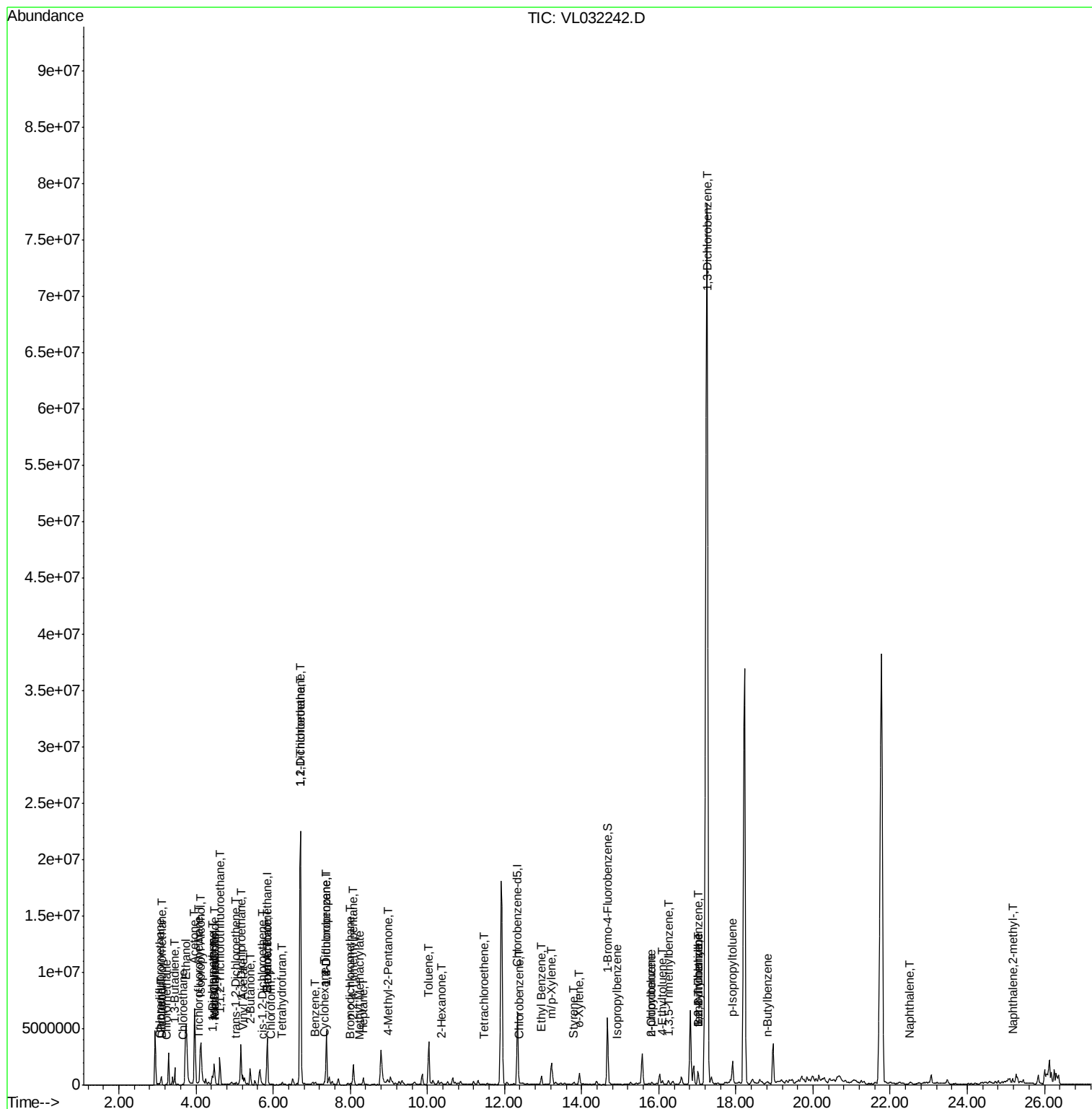
(#) = qualifier out of range (m) = manual integration (+) = signals summed

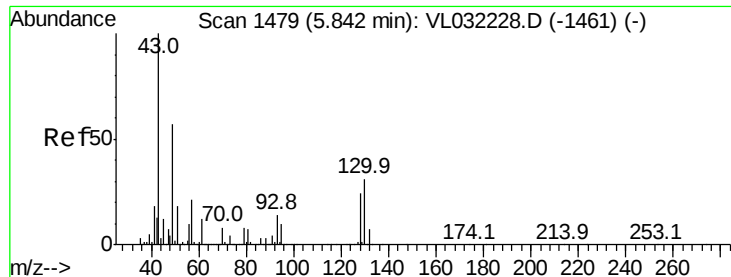
Data File : VL032242.D

```
Acq On       : 13 Jul 2018    8:16
Operator     : SY/AP
Sample       : J3753-03
Misc         : 400ml/MSV0A_L
ALS Vial     : 1      Sample Multipl
```

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Quant Time: Jul 13 09:35:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071218AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Jul 13 04:25:14 2018
QLast Update : Fri Jul 13 04:25:14 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. -0.00 min

Lab File: VL032242.D

Acq: 13 Jul 2018 8:16

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

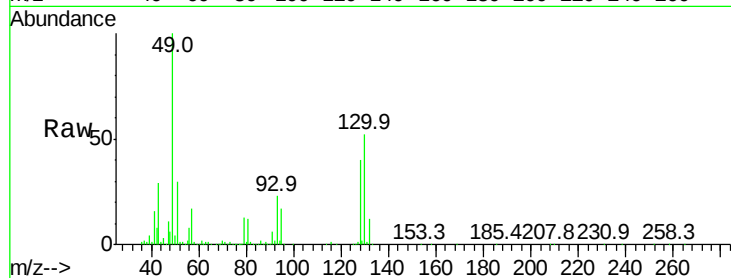
Tgt Ion: 49 Resp: 1639994

Ion	Ratio	Lower	Upper
49	100		
128	41.7	20.9	62.8
130	52.5	27.0	81.0

49 100

128 41.7 20.9 62.8

130 52.5 27.0 81.0



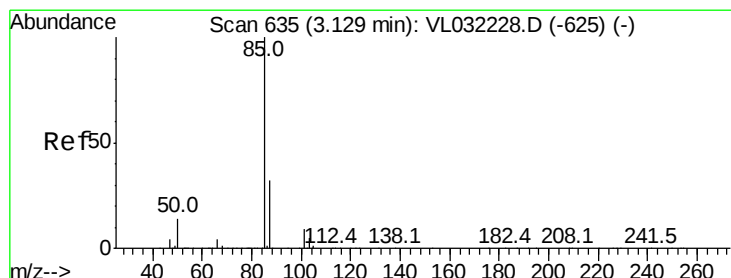
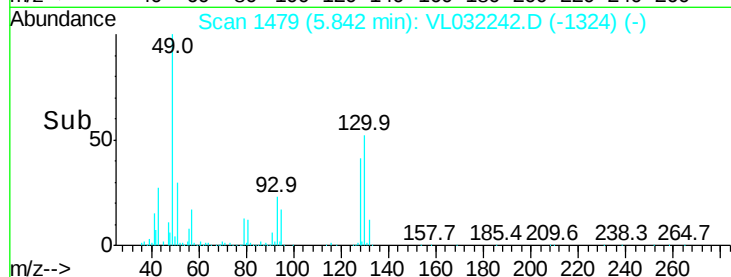
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.84

Time-->



#2

Dichlorodifluoromethane

Concen: 0.102 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032242.D

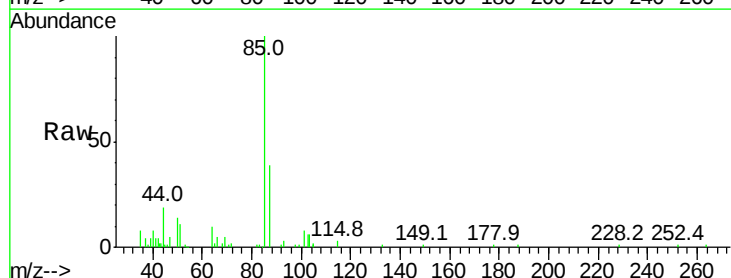
Acq: 13 Jul 2018 8:16

Tgt Ion: 85 Resp: 24038

Ion	Ratio	Lower	Upper
85	100		
87	38.6	25.8	38.6

85 100

87 38.6 25.8 38.6

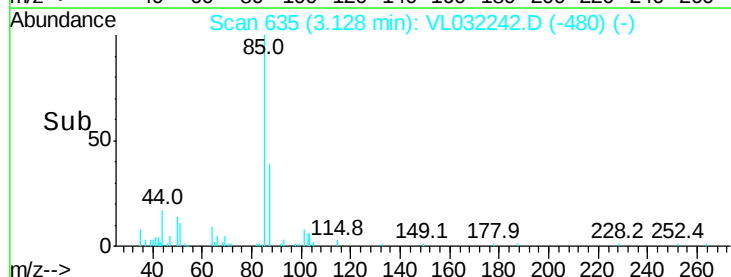


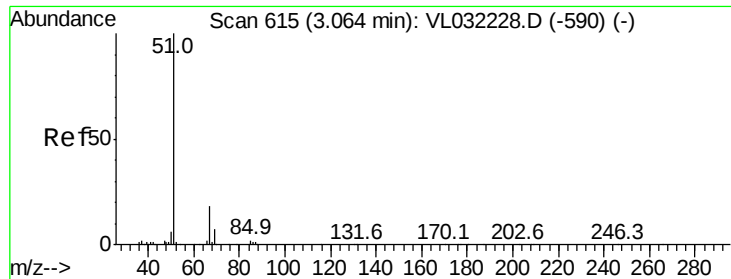
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.13

Time-->

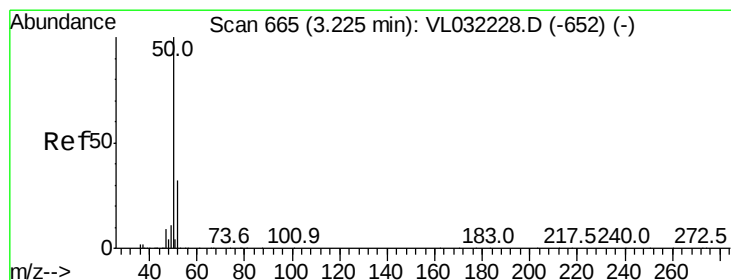
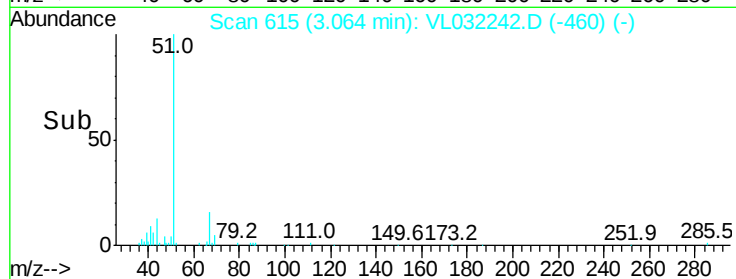
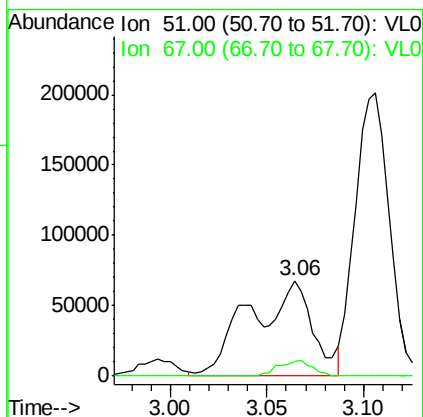
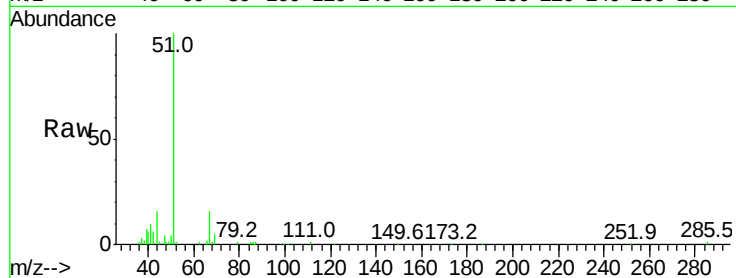




#3
Chlorodifluoromethane
Concen: 0.753 ppbv
RT: 3.06 min Scan# 615
Delta R.T. -0.00 min
Lab File: VL032242.D
Acq: 13 Jul 2018 8:16

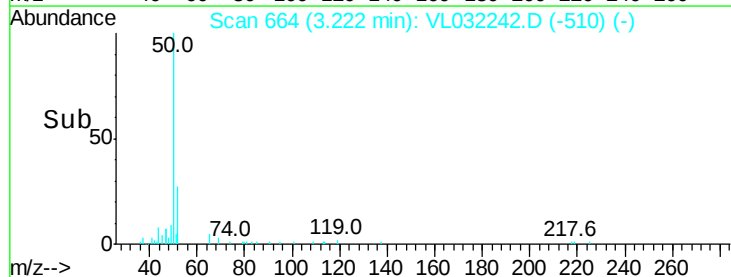
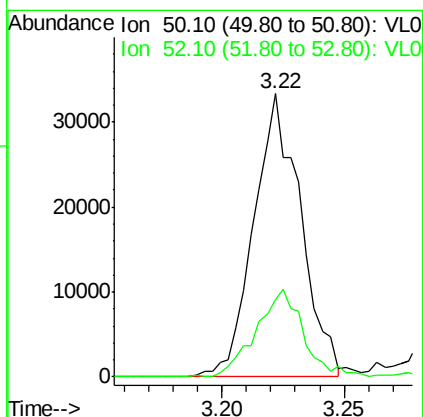
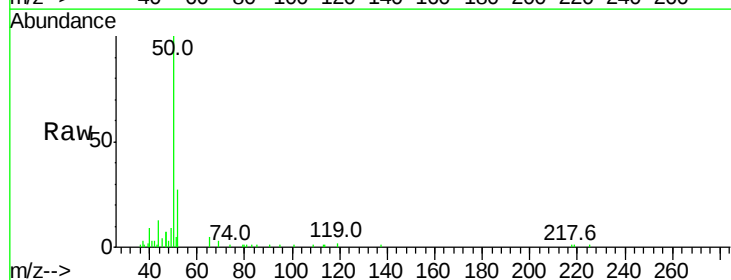
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

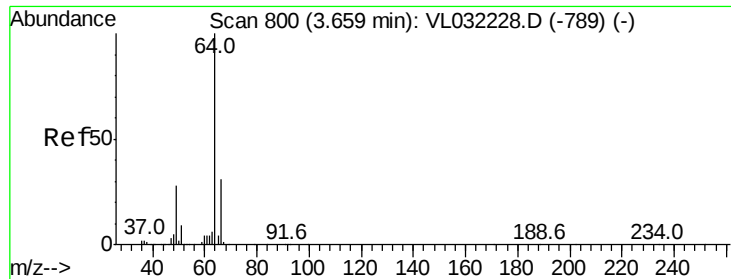
Tgt Ion: 51 Resp: 151689
Ion Ratio Lower Upper
51 100
67 9.4 14.6 22.0#



#4
Chloromethane
Concen: 0.386 ppbv
RT: 3.22 min Scan# 664
Delta R.T. -0.00 min
Lab File: VL032242.D
Acq: 13 Jul 2018 8:16

Tgt Ion: 50 Resp: 44264
Ion Ratio Lower Upper
50 100
52 27.2 25.7 38.5





#7

Chloroethane

Concen: 1.313 ppbv

RT: 3.66 min Scan# 800

Delta R.T. -0.00 min

Lab File: VL032242.D

Acq: 13 Jul 2018 8:16

Instrument :

MSVOA_L

ClientSampleId :

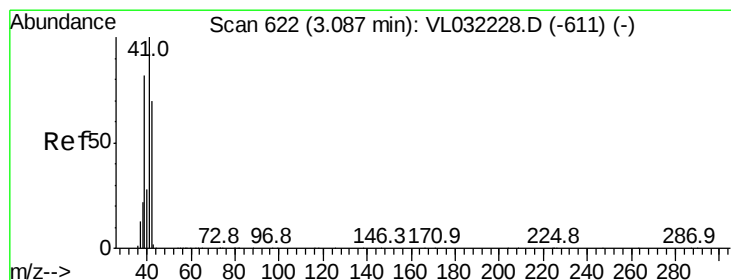
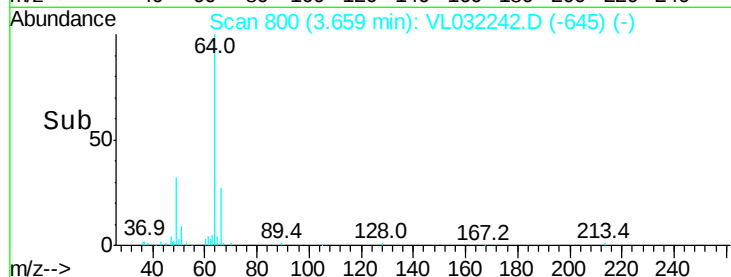
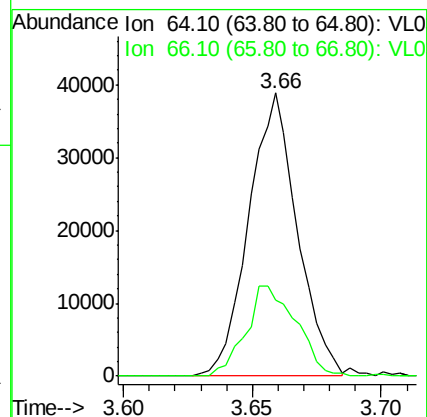
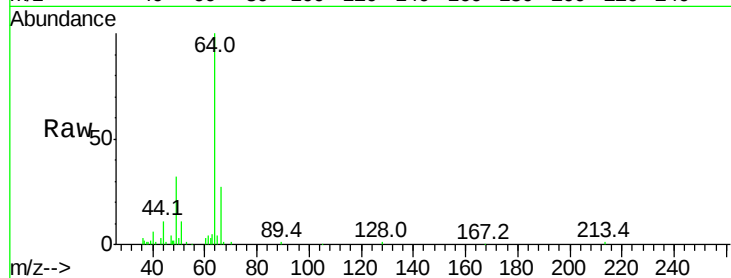
EFFLUENT

Tgt Ion: 64 Resp: 51080

Ion Ratio Lower Upper

64 100

66 25.9 24.4 36.6



#9

Propene

Concen: 2.342 ppbv

RT: 3.09 min Scan# 622

Delta R.T. -0.00 min

Lab File: VL032242.D

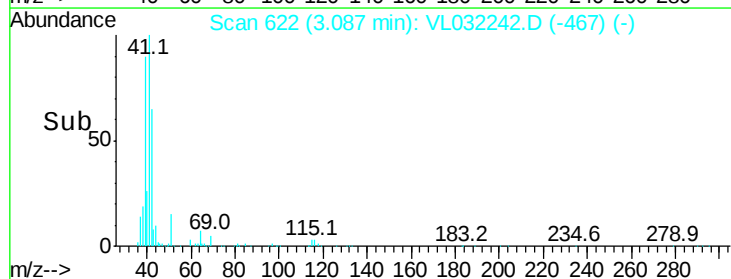
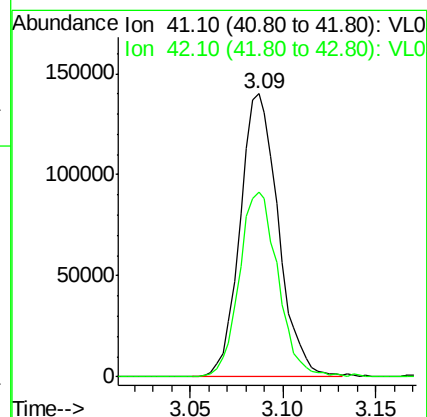
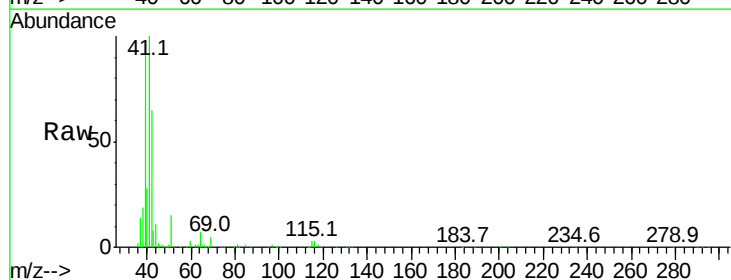
Acq: 13 Jul 2018 8:16

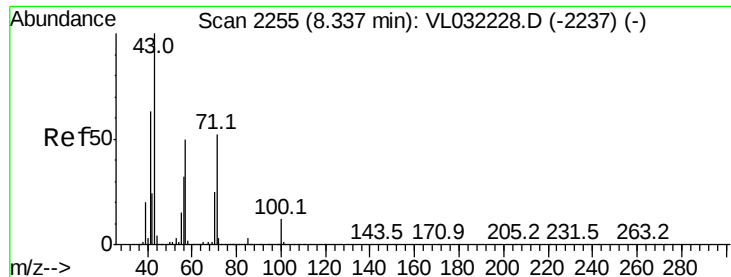
Tgt Ion: 41 Resp: 201218

Ion Ratio Lower Upper

41 100

42 66.4 56.2 84.4





#10

Heptane

Concen: 1.130 ppbv

RT: 8.33 min Scan# 2254

Delta R.T. -0.00 min

Lab File: VL032242.D

Acq: 13 Jul 2018 8:16

Instrument :

MSVOA_L

ClientSampleId :

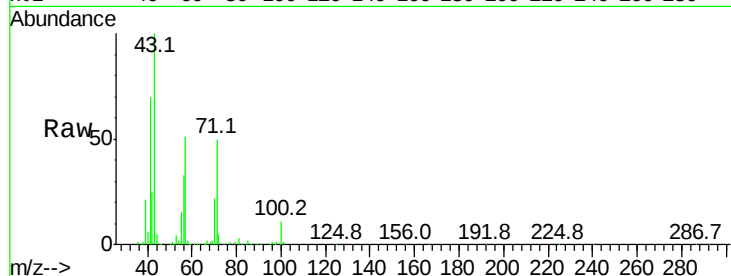
EFFLUENT

Tgt Ion: 43 Resp: 275741

Ion Ratio Lower Upper

43 100

57 50.5 40.7 61.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.33

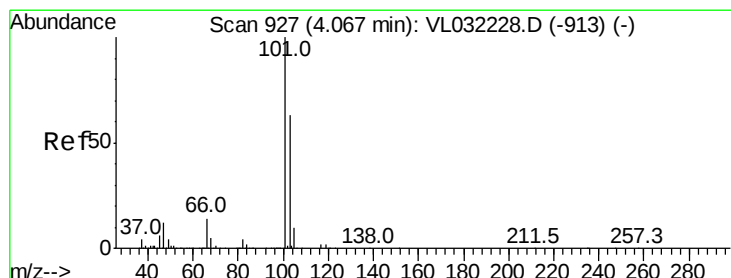
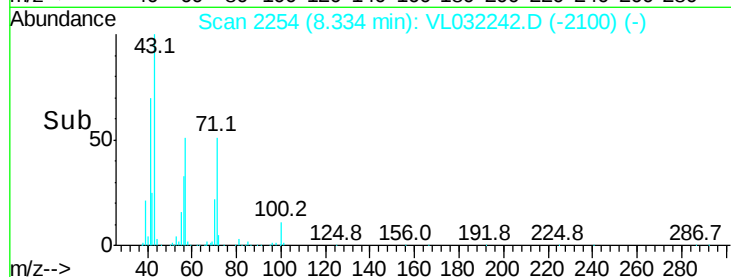
150000

100000

50000

0

Time--> 8.25 8.30 8.35 8.40



#11

Trichlorofluoromethane

Concen: 0.358 ppbv

RT: 4.07 min Scan# 927

Delta R.T. -0.00 min

Lab File: VL032242.D

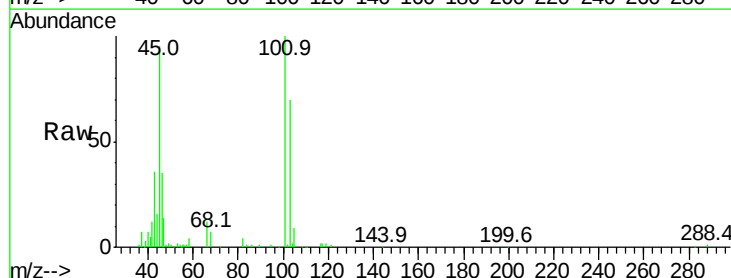
Acq: 13 Jul 2018 8:16

Tgt Ion: 101 Resp: 80892

Ion Ratio Lower Upper

101 100

103 69.5 50.2 75.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.07

60000

50000

40000

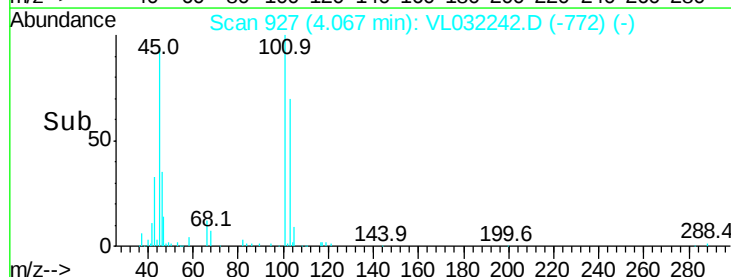
30000

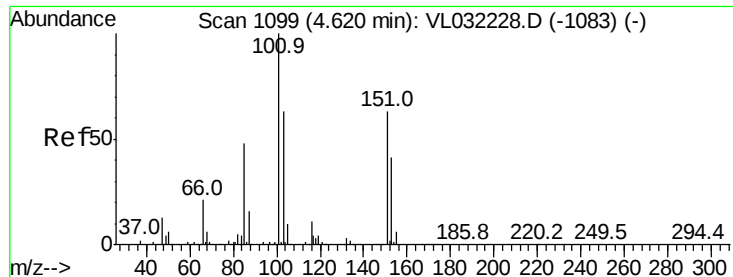
20000

10000

0

Time--> 4.00 4.05 4.10

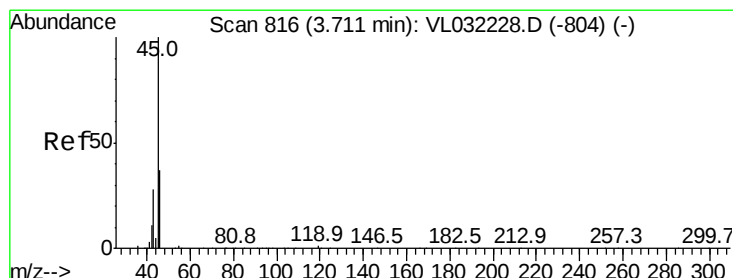
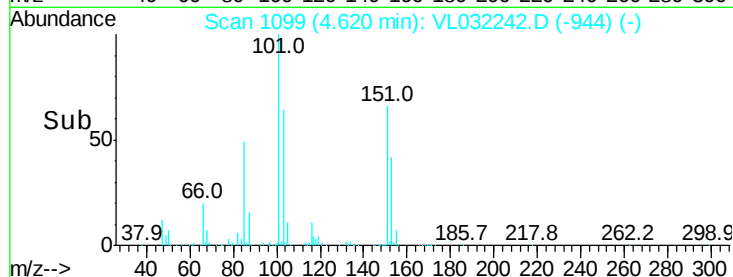
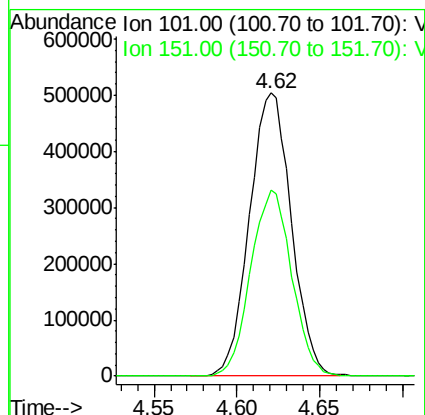
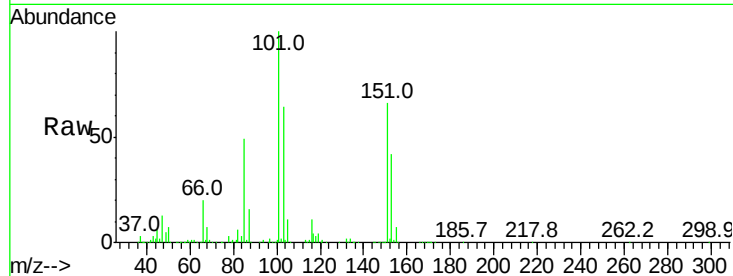




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 6.151 ppbv
 RT: 4.62 min Scan# 1099
 Delta R.T. -0.00 min
 Lab File: VL032242.D
 Acq: 13 Jul 2018 8:16

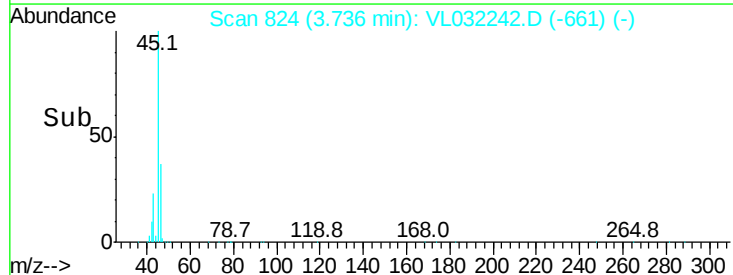
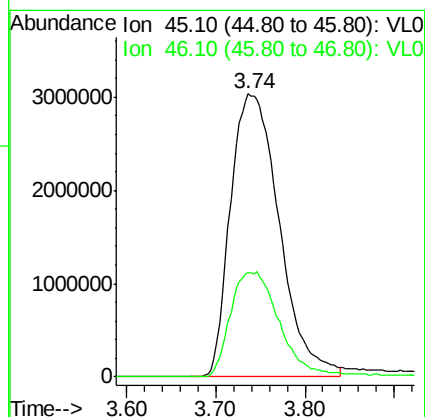
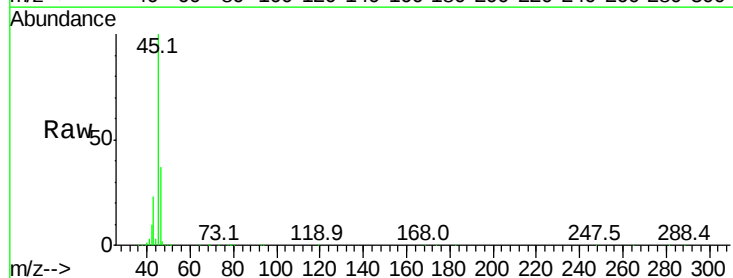
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

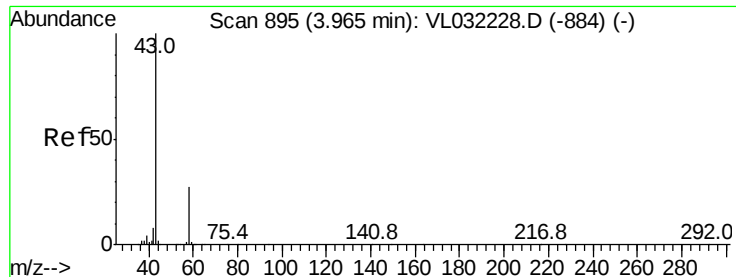
Tgt Ion:101 Resp: 887413
 Ion Ratio Lower Upper
 101 100
 151 64.6 52.2 78.2



#13
 Ethanol
 Concen: 465.467 ppbv
 RT: 3.74 min Scan# 824
 Delta R.T. 0.03 min
 Lab File: VL032242.D
 Acq: 13 Jul 2018 8:16

Tgt Ion: 45 Resp:11542551
 Ion Ratio Lower Upper
 45 100
 46 38.3 15.5 61.9





#15

Acetone

Concen: 41.930 ppbv

RT: 3.96 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL032242.D

Acq: 13 Jul 2018 8:16

Instrument :

MSVOA_L

ClientSampleId :

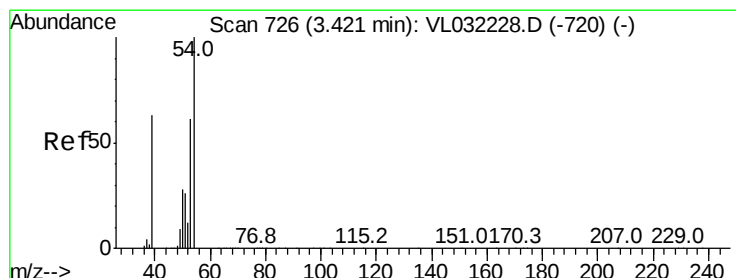
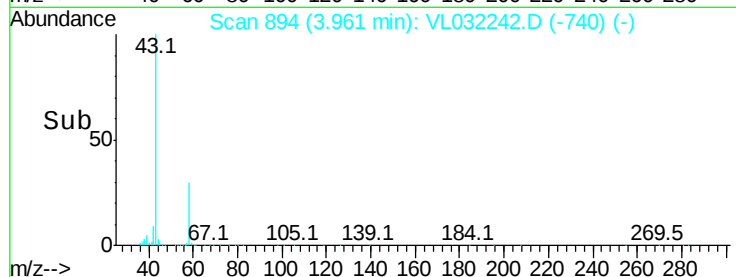
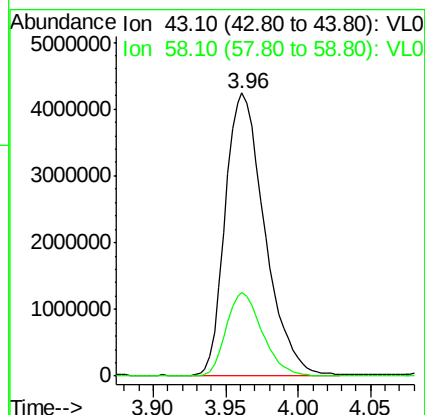
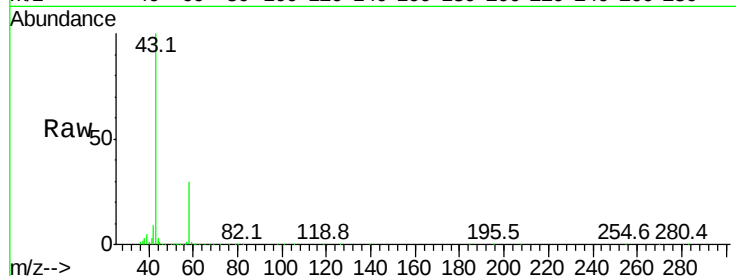
EFFLUENT

Tgt Ion: 43 Resp: 7979736

Ion Ratio Lower Upper

43 100

58 27.4 21.5 32.3



#16

1,3-Butadiene

Concen: 1.844 ppbv

RT: 3.45 min Scan# 734

Delta R.T. 0.03 min

Lab File: VL032242.D

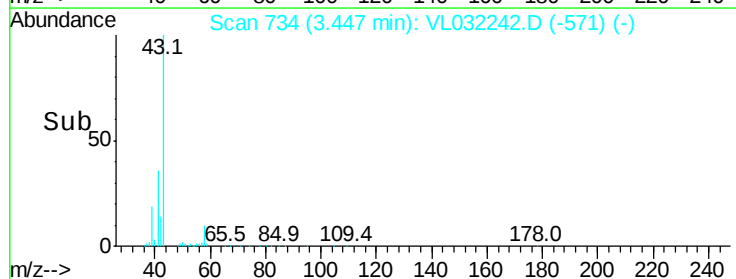
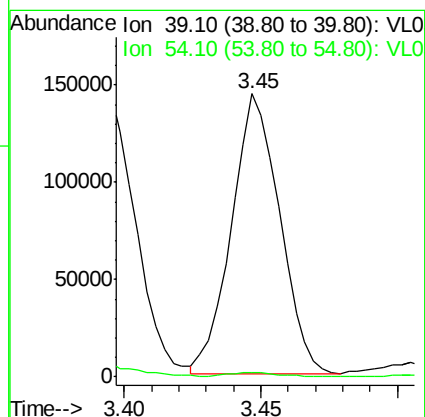
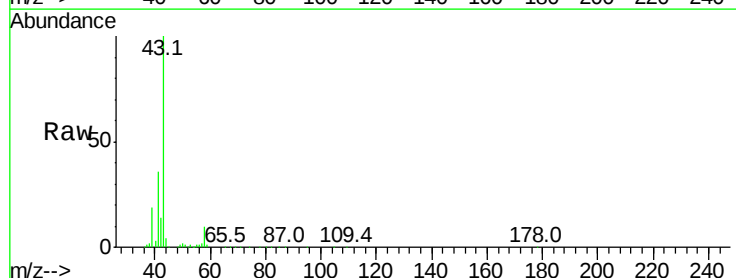
Acq: 13 Jul 2018 8:16

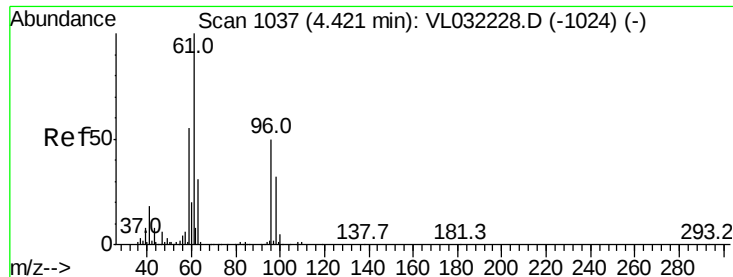
Tgt Ion: 39 Resp: 177327

Ion Ratio Lower Upper

39 100

54 1.6 70.0 105.0#





#17

tert-Butyl alcohol

Concen: 13.690 ppbv

RT: 4.46 min Scan# 1049

Delta R.T. 0.04 min

Lab File: VL032242.D

Acq: 13 Jul 2018 8:16

Instrument :

MSVOA_L

ClientSampleId :

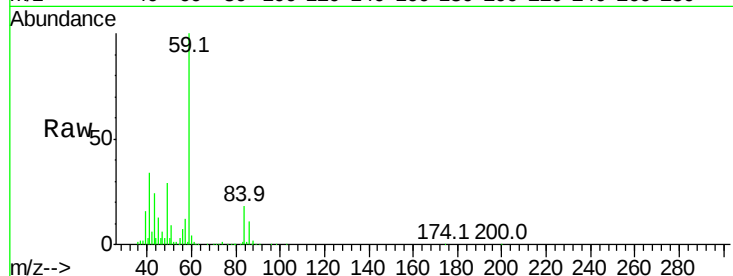
EFFLUENT

Tgt Ion: 59 Resp: 1216433

Ion Ratio Lower Upper

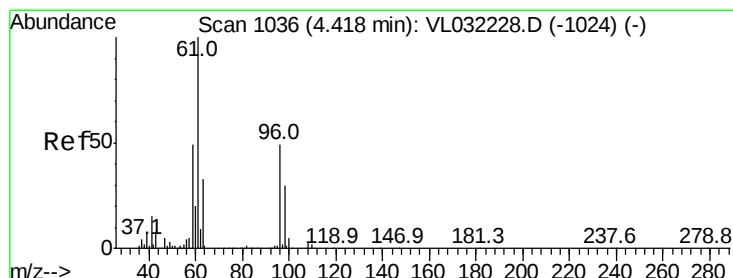
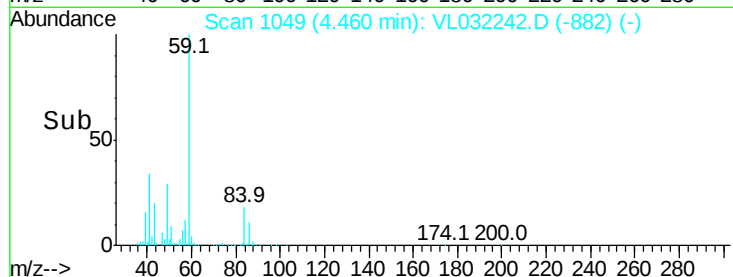
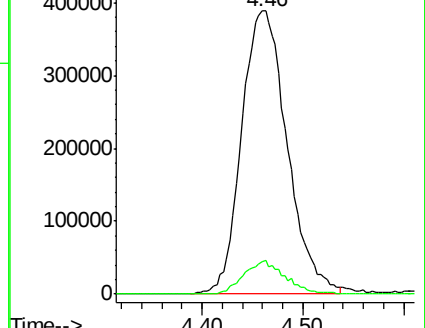
59 100

57 10.9 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 2.940 ppbv

RT: 4.41 min Scan# 1035

Delta R.T. -0.00 min

Lab File: VL032242.D

Acq: 13 Jul 2018 8:16

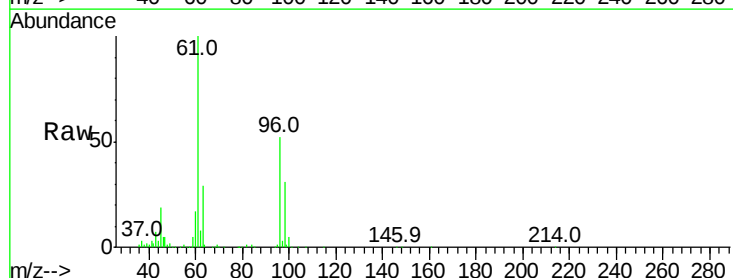
Tgt Ion: 96 Resp: 197380

Ion Ratio Lower Upper

96 100

61 192.8 163.0 244.4

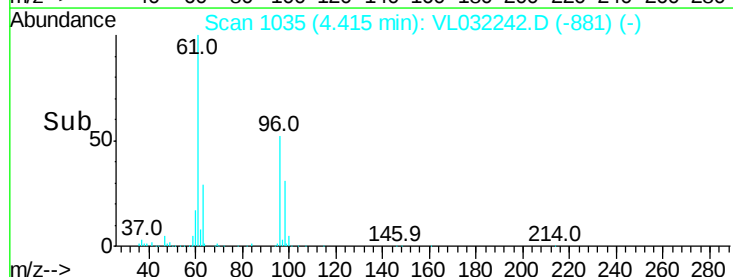
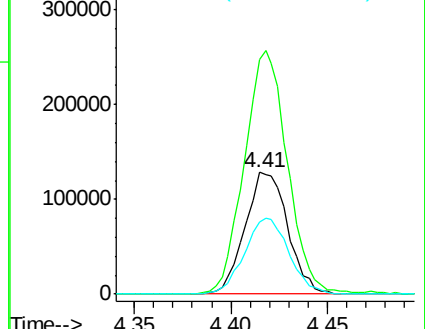
98 59.1 48.5 72.7

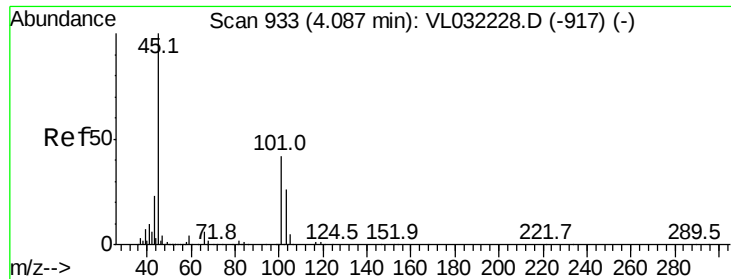


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 59.390 ppbv

RT: 4.12 min Scan# 944

Delta R.T. 0.04 min

Lab File: VL032242.D

Acq: 13 Jul 2018 8:16

Instrument :

MSVOA_L

ClientSampled :

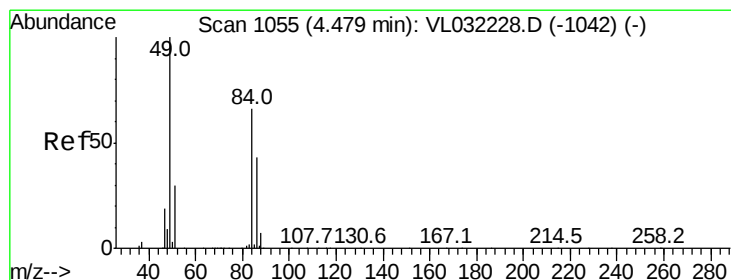
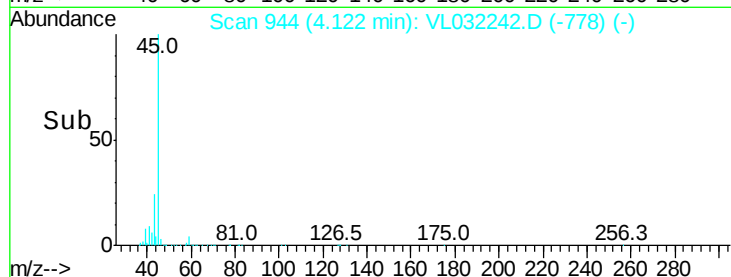
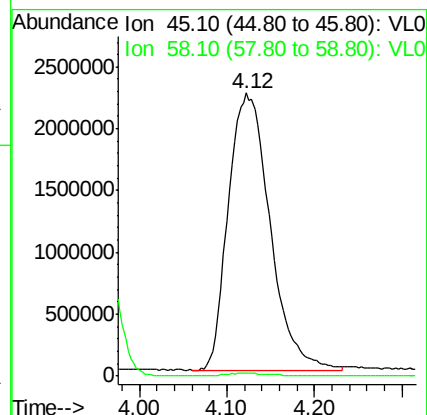
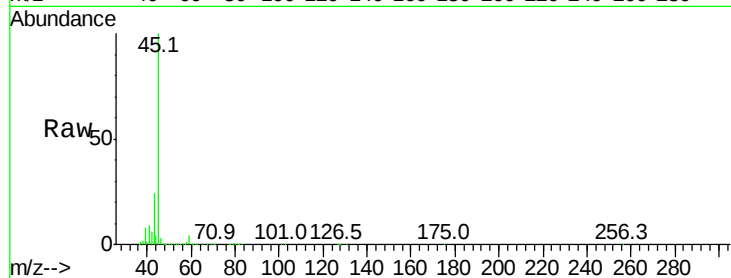
EFFLUENT

Tgt Ion: 45 Resp: 7421495

Ion Ratio Lower Upper

45 100

58 1.1 1.3 1.9#



#20

Methylene Chloride

Concen: 6.305 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. -0.00 min

Lab File: VL032242.D

Acq: 13 Jul 2018 8:16

Tgt Ion: 84 Resp: 406625

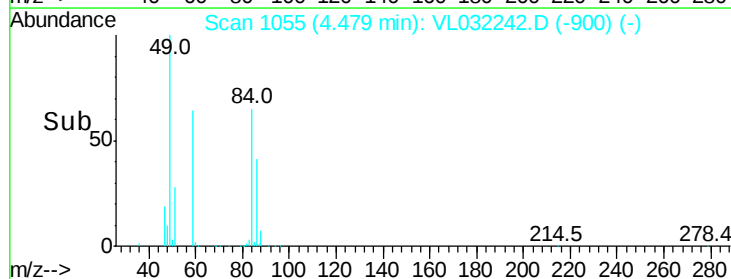
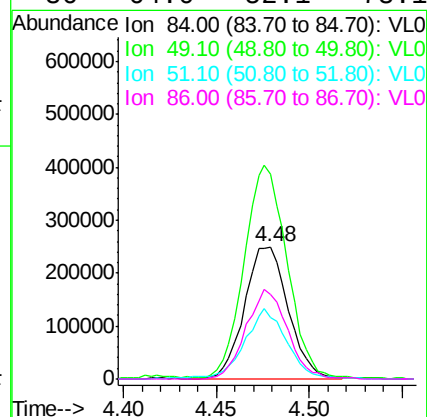
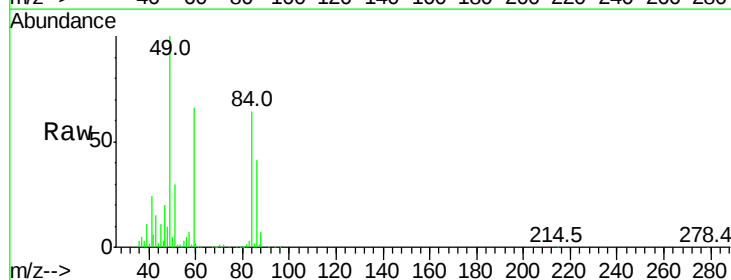
Ion Ratio Lower Upper

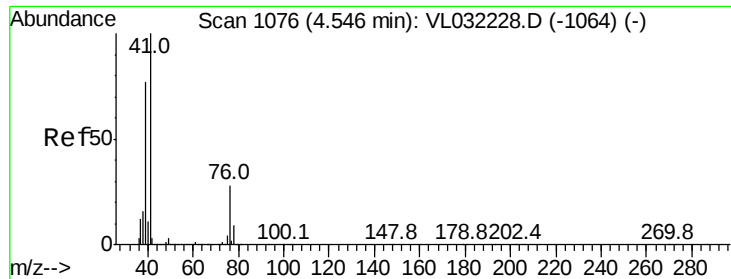
84 100

49 154.8 121.8 182.6

51 46.1 36.3 54.5

86 64.0 52.1 78.1





#21

Allyl Chloride

Concen: 1.453 ppbv

RT: 4.47 min Scan# 1053

Delta R.T. -0.07 min

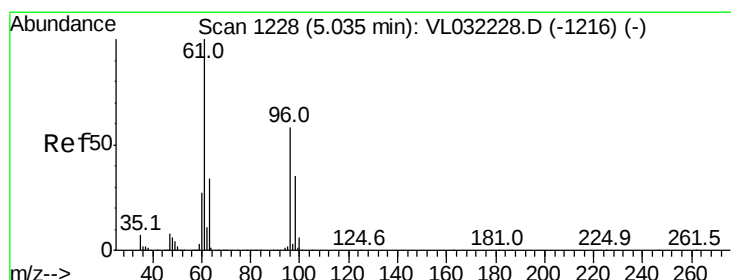
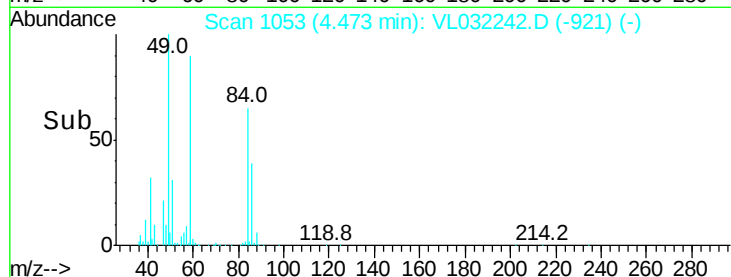
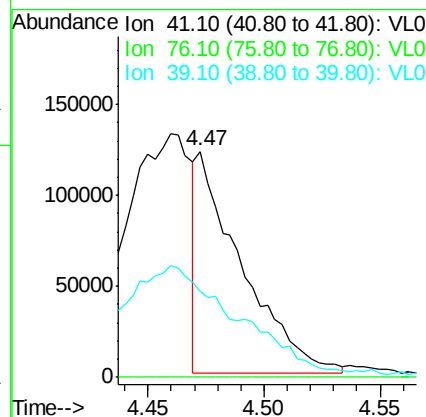
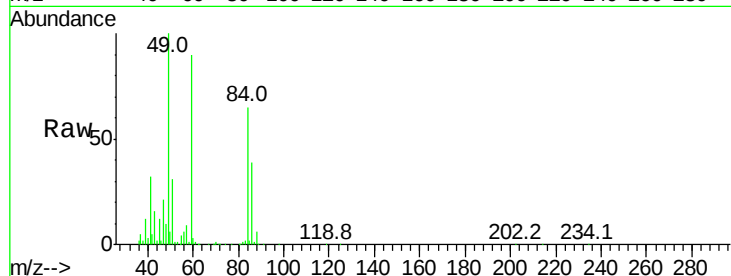
Lab File: VL032242.D

Acq: 13 Jul 2018 8:16

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

Tgt Ion: 41 Resp: 161884

Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.9	34.3#
39	0.0	62.3	93.5#



#22

trans-1,2-Dichloroethene

Concen: 0.962 ppbv

RT: 5.04 min Scan# 1229

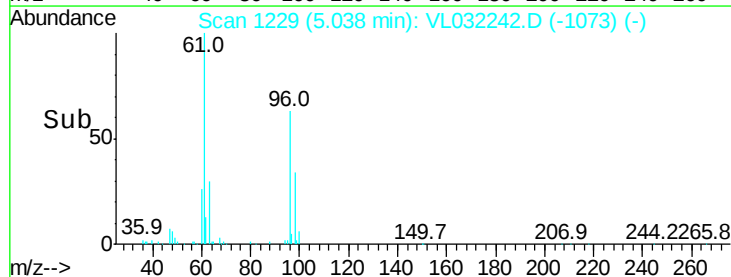
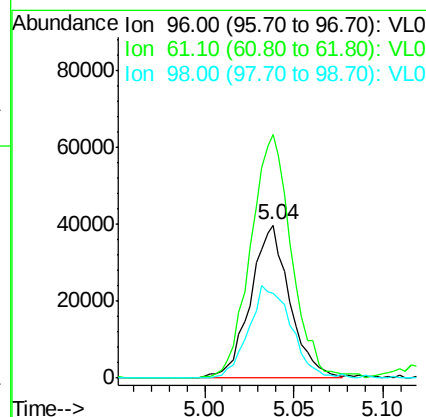
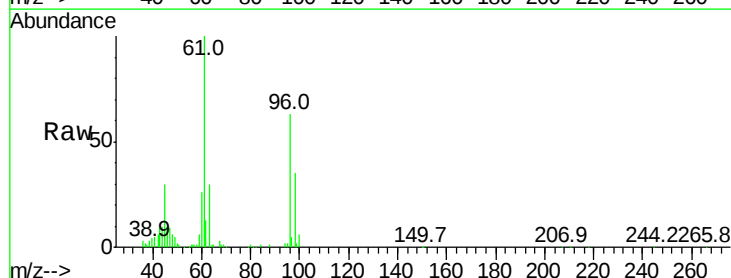
Delta R.T. 0.00 min

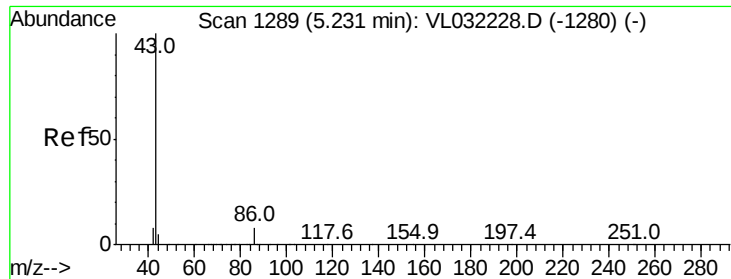
Lab File: VL032242.D

Acq: 13 Jul 2018 8:16

Tgt Ion: 96 Resp: 61447

Ion	Ratio	Lower	Upper
96	100		
61	158.8	139.1	208.7
98	55.3	48.4	72.6

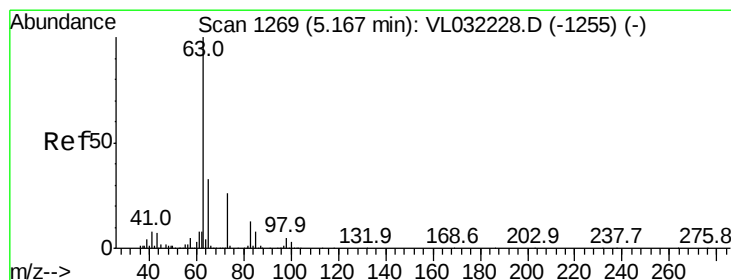
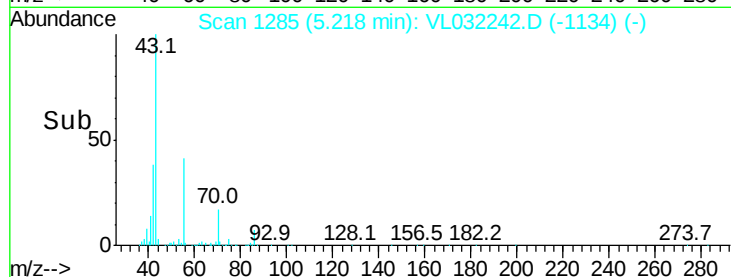
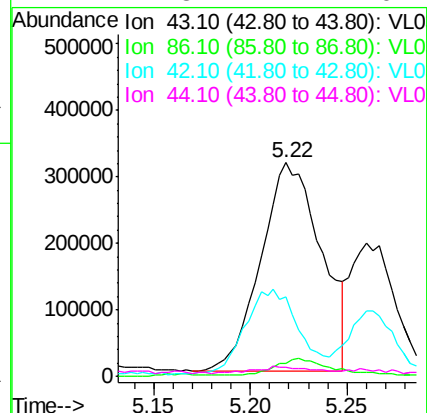
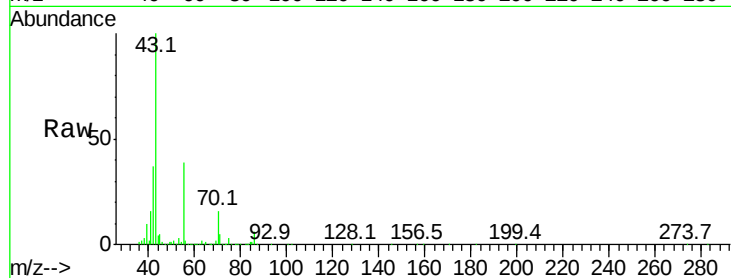




#23
 Vinyl Acetate
 Concen: 2.170 ppbv
 RT: 5.22 min Scan# 1285
 Delta R.T. -0.01 min
 Lab File: VL032242.D
 Acq: 13 Jul 2018 8:16

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Tgt Ion:	43	Resp:	686820
Ion	Ratio	Lower	Upper
43	100		
86	5.7	5.9	8.9#
42	36.6	7.0	10.6#
44	2.8	4.2	6.2#



#24
 1,1-Dichloroethane
 Concen: 14.632 ppbv
 RT: 5.17 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VL032242.D
 Acq: 13 Jul 2018 8:16

Tgt Ion:	63	Resp:	3251642
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.4	7.1
100	2.7	1.5	4.4

