Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070820\
Data File : VL035178.D
Acq On : 8 Jul 2020 10:43
Operator : SY/AP
Sample : L3190-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : EXHAUST-02

Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

Quant Time: Jul 09 11:08:28 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070820AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 0
QLast Update : Wed Jul 08 07:05:23 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.66	49	1009934	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.18	114	2312185	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.11	117	2375238	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.45	95	1979530	10.26	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.00	85	29959	0.212	ppbv		96
3) Chlorodifluoromethane	2.92	51	626403	5.615	ppbv	#	59
4) Chloromethane	3.10	50	49472m	0.787	ppbv		
9) Propene	2.96	41	715255	16.966	ppbv		94
10) Heptane	8.12	43	37320m	0.345	ppbv		
11) Trichlorofluoromethane	3.92	101	26625	0.167	ppbv	#	82
13) Ethanol	3.57	45	957375	71.326	ppbv		92
15) Acetone	3.81	43	7688065	56.229	ppbv	#	76
17) tert-Butyl alcohol	4.27	59	1634474	13.510	ppbv		99
19) Isopropyl Alcohol	3.94	45	522442	6.334	ppbv	#	92
20) Methylene Chloride	4.32	84	5862009	98.534	ppbv	#	86
26) Hexane	5.67	57	3507877	37.496	ppbv	#	46
27) Carbon Disulfide	4.52	76	1776388	13.598	ppbv		99
29) Chloroform	5.75	83	29871m	0.190	ppbv		
34) 2-Butanone	5.23	43	313863	2.543	ppbv		99
35) Carbon Tetrachloride	7.02	117	14985m	0.100	ppbv		
36) Benzene	6.89	78	3930757	23.489	ppbv		100
37) 1,2-Dichloroethane	6.31	62	17274	0.154	ppbv		97
38) Trichloroethene	7.84	130	3980m	0.058	ppbv		
39) 1,2-Dichloropropane	7.61	63	37850m	0.569	ppbv		
41) Tetrahydrofuran	6.05	42	22464m	0.364	ppbv		
44) 2,2,4-Trimethylpentane	7.88	57	91628m	0.317	ppbv		
52) Tetrachloroethene	11.25	164	9270m	0.148	ppbv		
53) Toluene	9.82	91	602970	3.414	ppbv		99
58) Ethyl Benzene	12.73	91	91985m	0.350	ppbv		
59) m/p-Xylene	12.99	91	174816m	0.747	ppbv		
60) o-Xylene	13.72	91	81691m	0.350	ppbv		
61) Styrene	13.56	104	30735m	0.213	ppbv		
62) Isopropylbenzene	14.70	105	325399	0.940	ppbv		97
69) p-Isopropyltoluene	17.70	119	65380m	0.184	ppbv		
73) 1,3,5-Trimethylbenzene	16.03	105	57140m	0.225	ppbv		
74) 1,2,4-Trimethylbenzene	16.80	105	147889	0.528	ppbv	#	65
79) Naphthalene	22.25	128	143771m	0.793	ppbv		

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

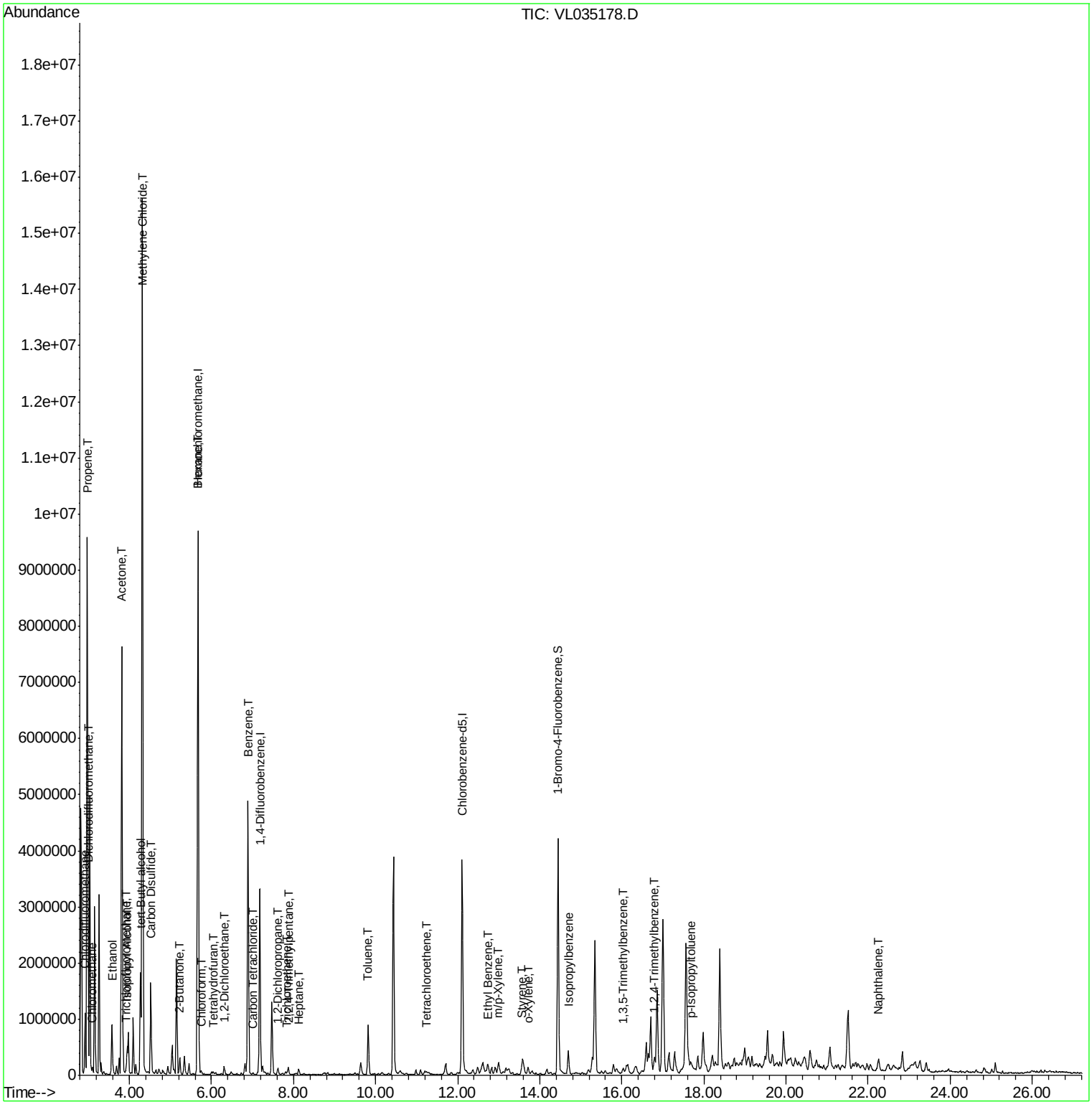
Quantitation Report (QT Reviewed)

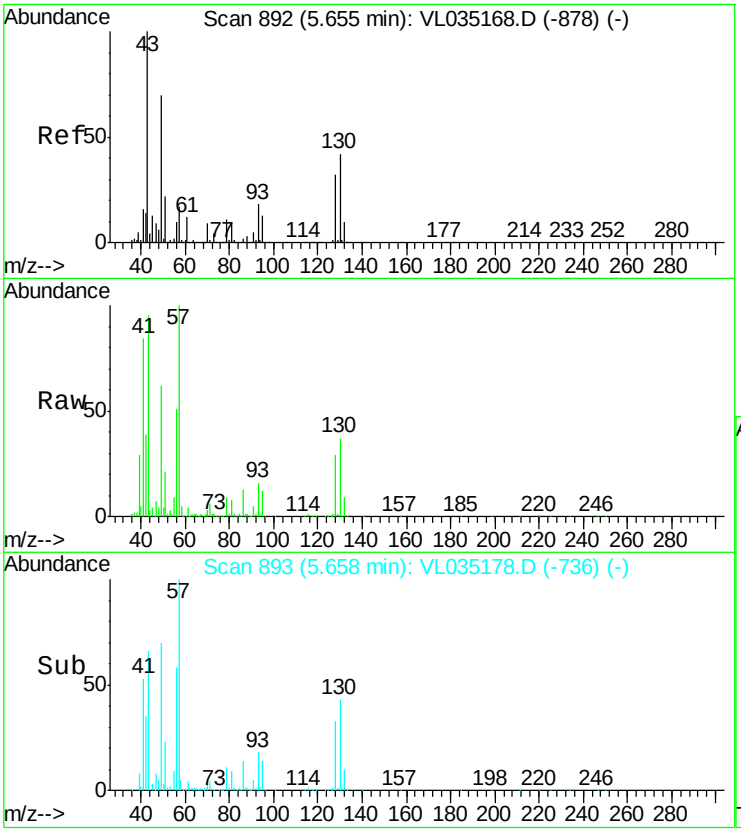
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070820\
Data File : VL035178.D
Acq On : 8 Jul 2020 10:43
Operator : SY/AP
Sample : L3190-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 09 11:08:28 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070820AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul
QLast Update : Wed Jul 08 07:05:23 2020
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

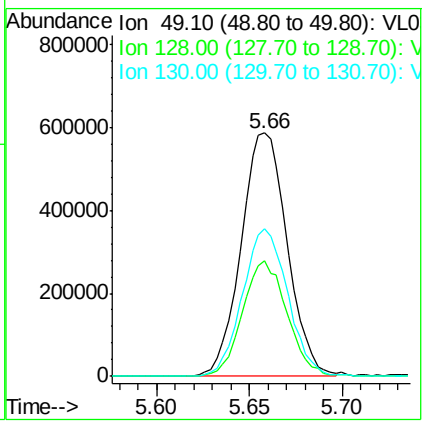




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 893
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

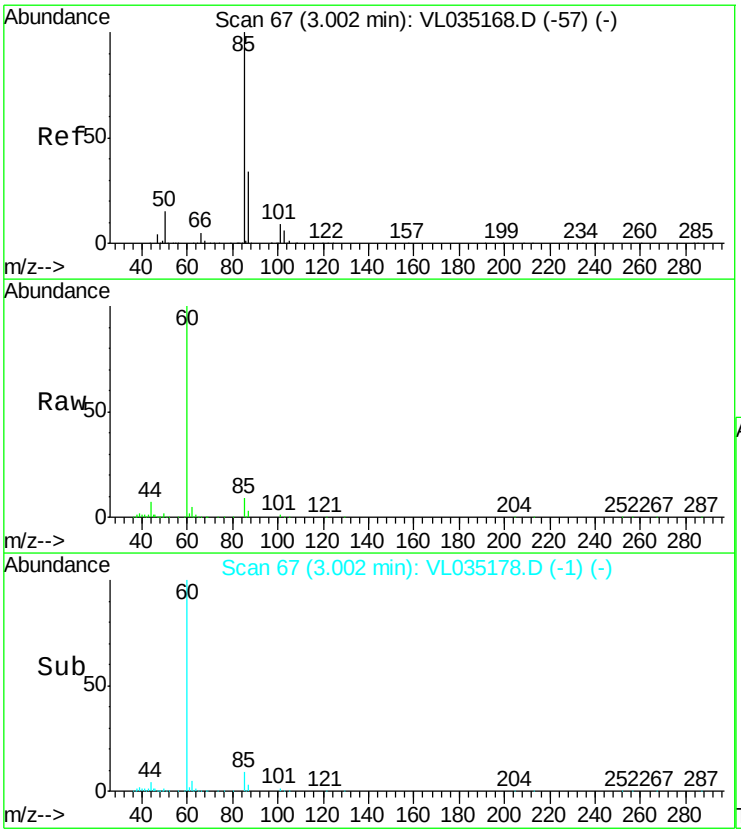
Tgt Ion: 49 Resp: 1009934

Ion	Ratio	Lower	Upper
49	100		
128	46.2	23.8	71.4
130	60.0	29.9	89.8



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

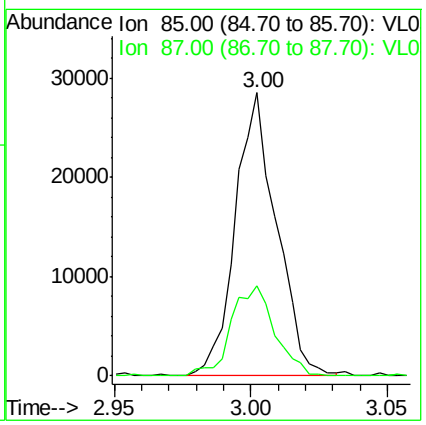
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

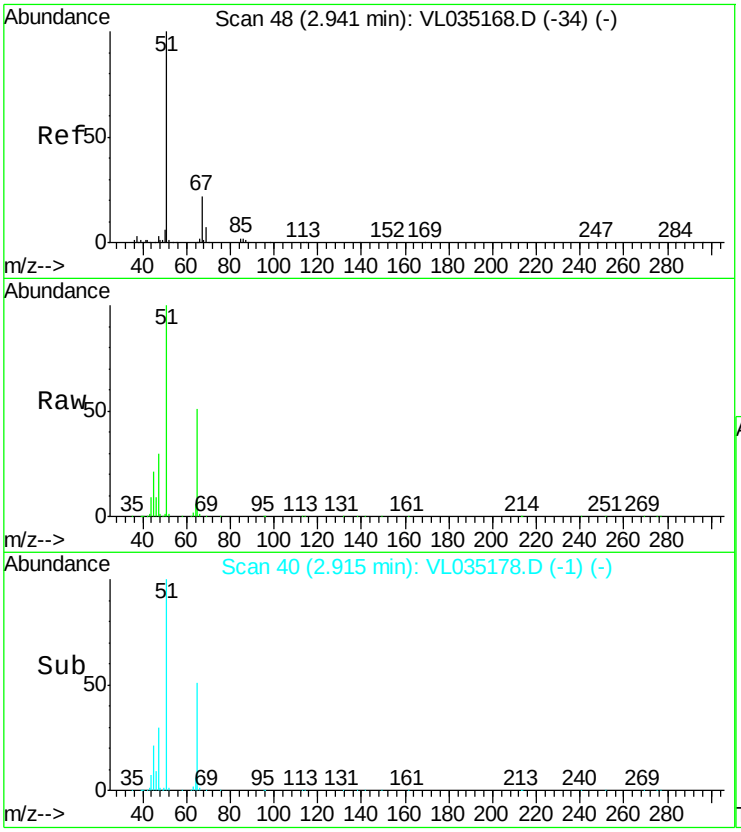


#2
Dichlorodifluoromethane
Concen: 0.212 ppbv
RT: 3.00 min Scan# 67
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 85 Resp: 29959

Ion	Ratio	Lower	Upper
85	100		
87	31.7	27.0	40.6

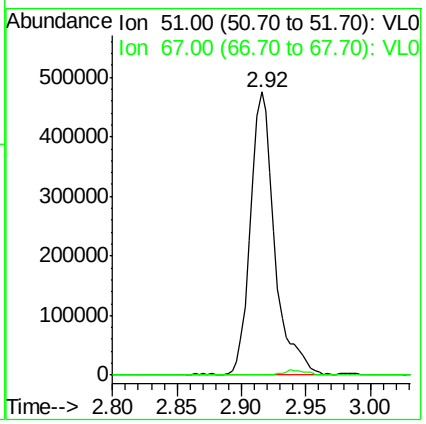




#3
Chlorodifluoromethane
Concen: 5.615 ppbv
RT: 2.92 min Scan# 40
Delta R.T. -0.03 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

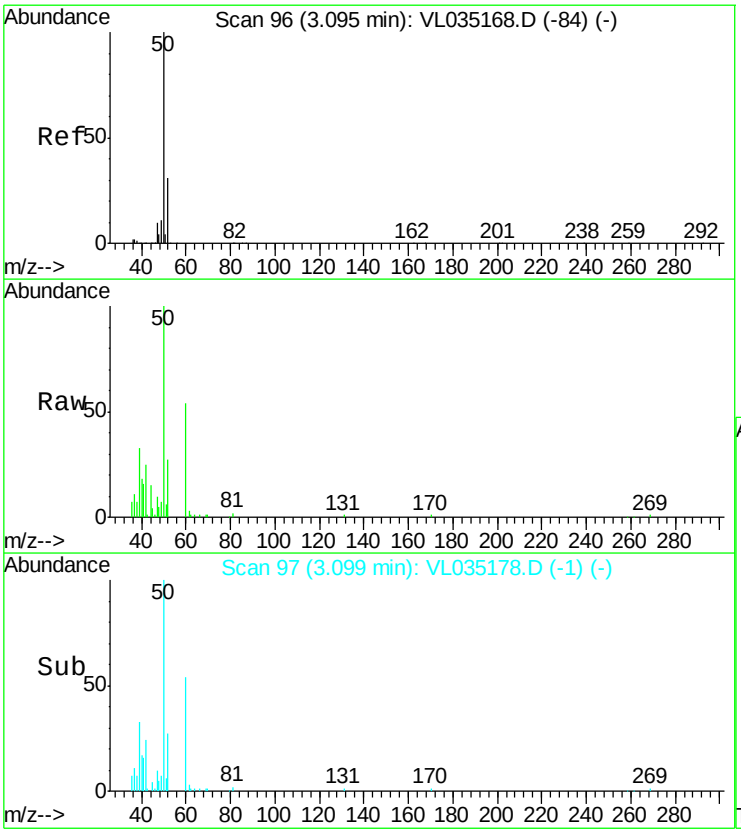
Tgt Ion: 51 Resp: 626403

Ion	Ratio	Lower	Upper
51	100		
67	1.7	16.6	24.8#



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

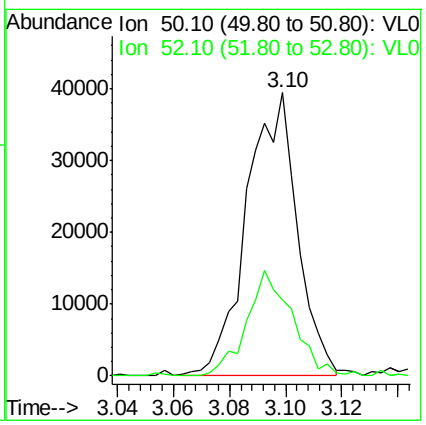
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

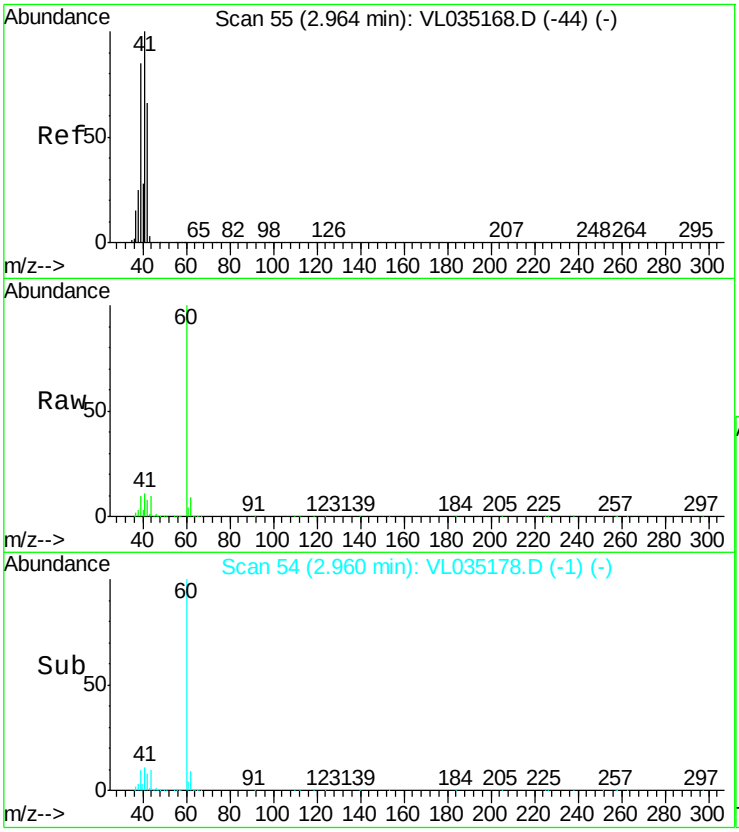


#4
Chloromethane
Concen: 0.787 ppbv m
RT: 3.10 min Scan# 97
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 50 Resp: 49472

Ion	Ratio	Lower	Upper
50	100		
52	26.8	25.0	37.6





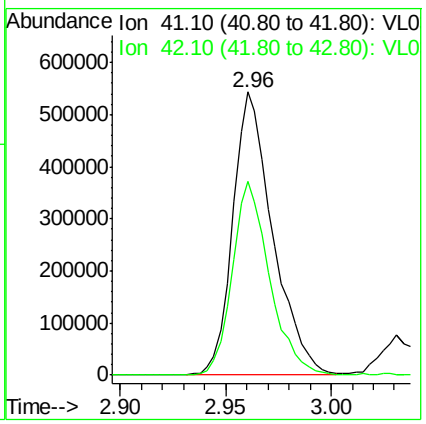
#9
Propene
Concen: 16.966 ppbv
RT: 2.96 min Scan# 54
Delta R.T. -0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

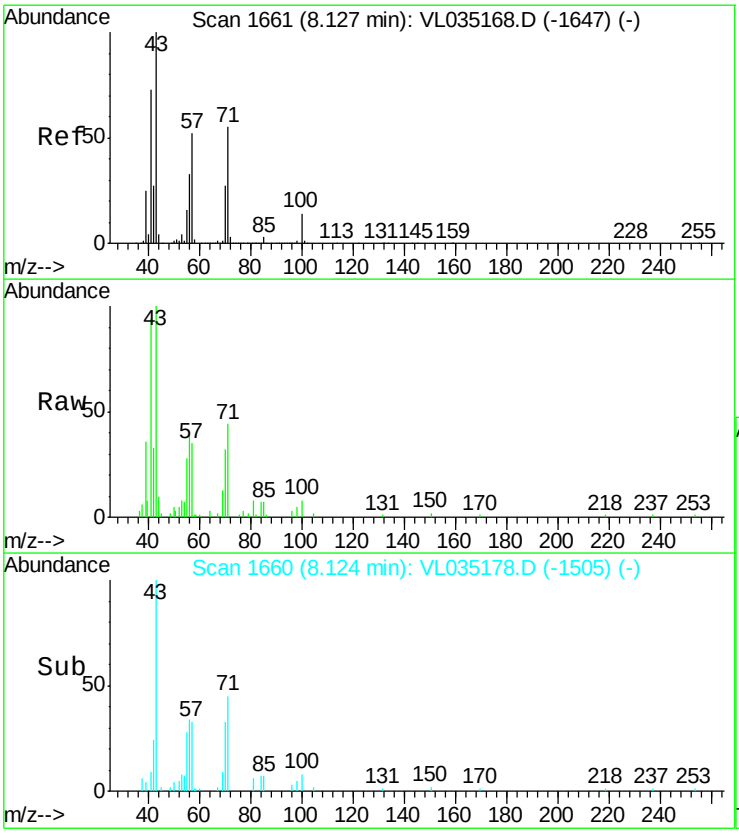
Tgt Ion: 41 Resp: 715255

Ion	Ratio	Lower	Upper
41	100		
42	63.7	54.6	81.8

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

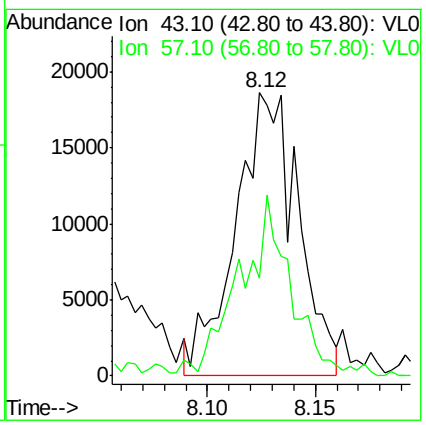


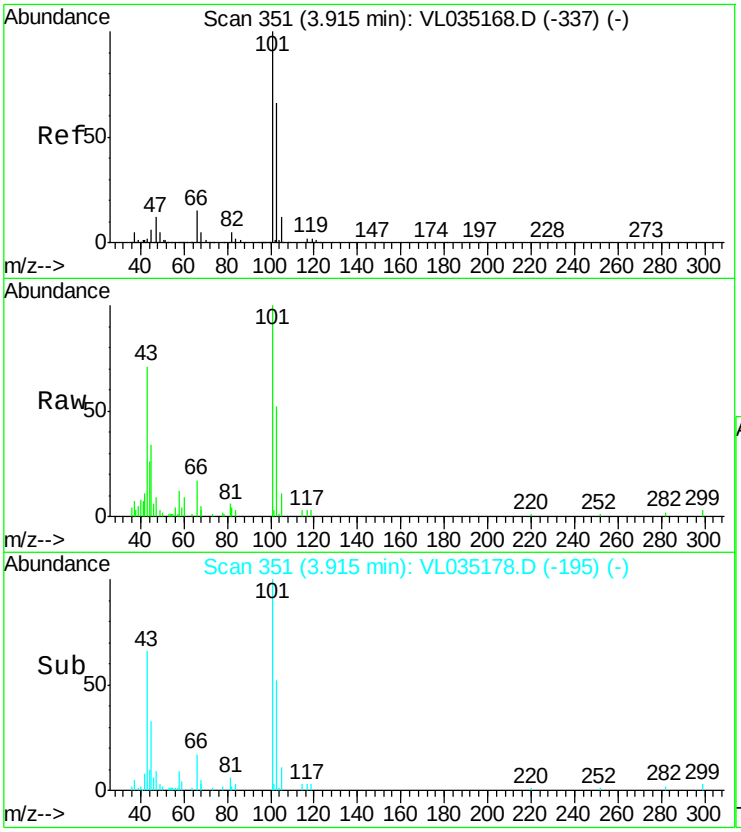


#10
Heptane
Concen: 0.345 ppbv m
RT: 8.12 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 43 Resp: 37320

Ion	Ratio	Lower	Upper
43	100		
57	0.0	41.8	62.6#

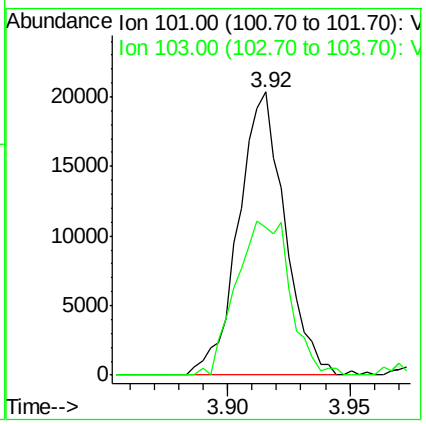




#11
Trichlorofluoromethane
Concen: 0.167 ppbv
RT: 3.92 min Scan# 351
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

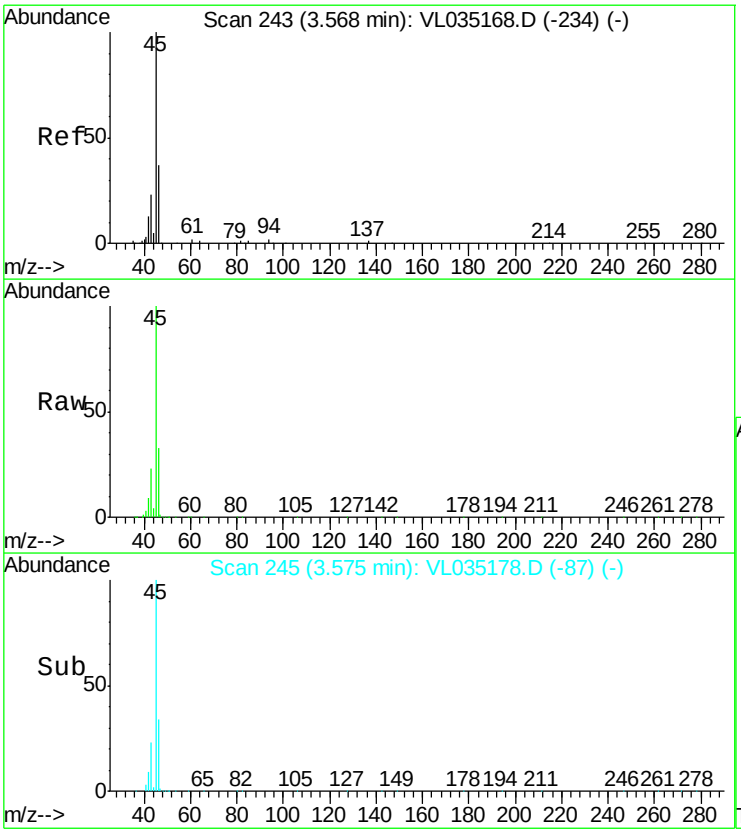
Tgt Ion:101 Resp: 26625

Ion	Ratio	Lower	Upper
101	100		
103	52.0	53.1	79.7#



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

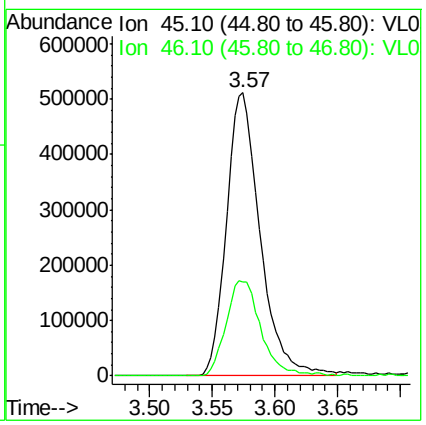
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

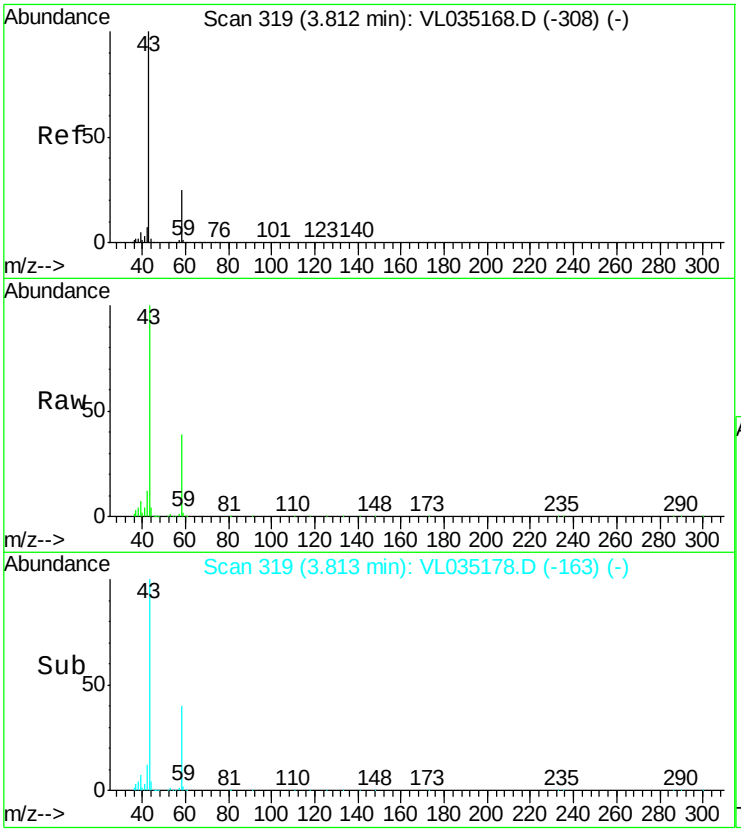


#13
Ethanol
Concen: 71.326 ppbv
RT: 3.57 min Scan# 245
Delta R.T. 0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 45 Resp: 957375

Ion	Ratio	Lower	Upper
45	100		
46	35.8	16.2	65.0





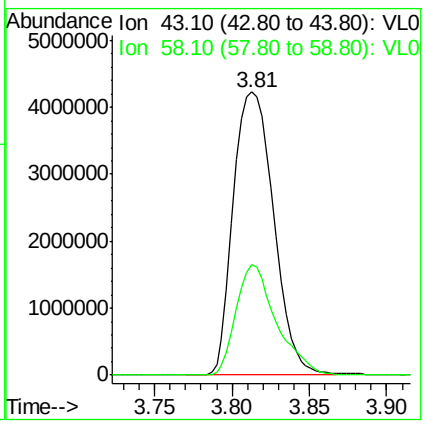
#15
Acetone
Concen: 56.229 ppbv
RT: 3.81 min Scan# 319
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

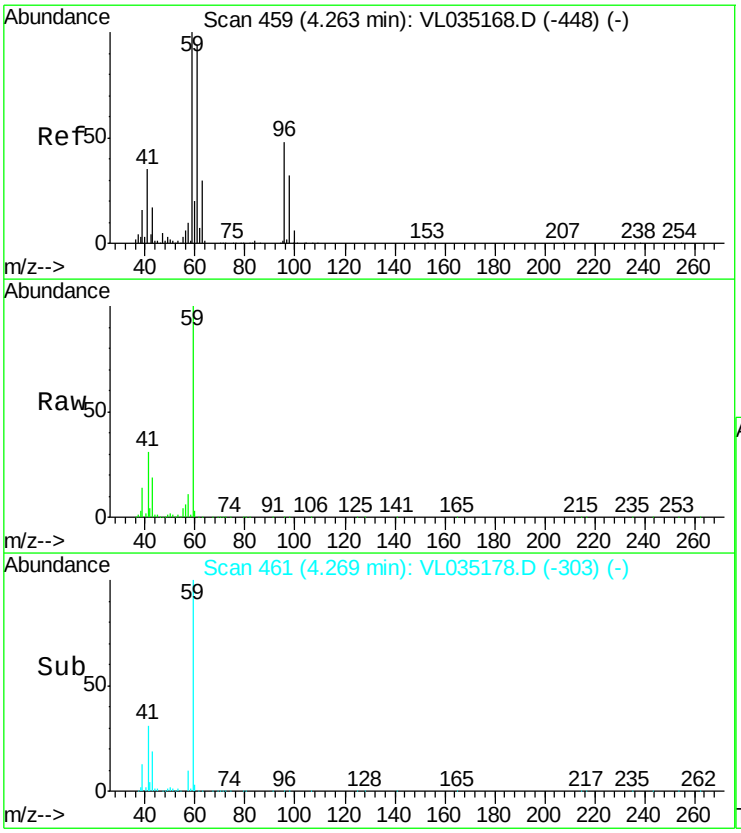
Tgt Ion: 43 Resp: 7688065

Ion	Ratio	Lower	Upper
43	100		
58	39.0	21.3	31.9#

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

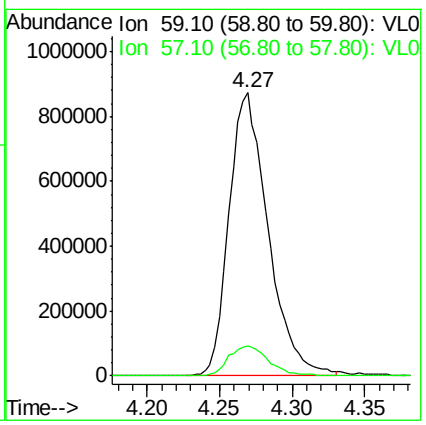


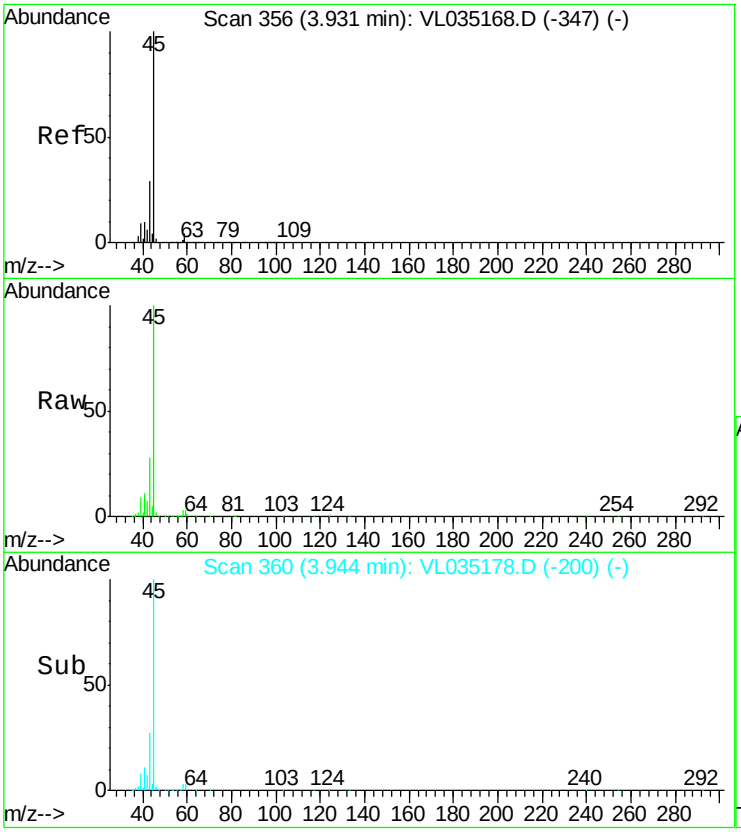


#17
tert-Butyl alcohol
Concen: 13.510 ppbv
RT: 4.27 min Scan# 461
Delta R.T. 0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 59 Resp: 1634474

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.6	12.8





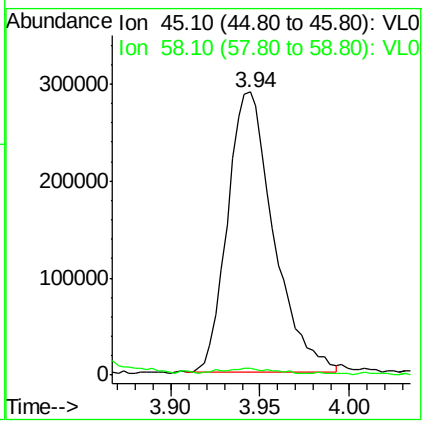
#19
Isopropyl Alcohol
Concen: 6.334 ppbv
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

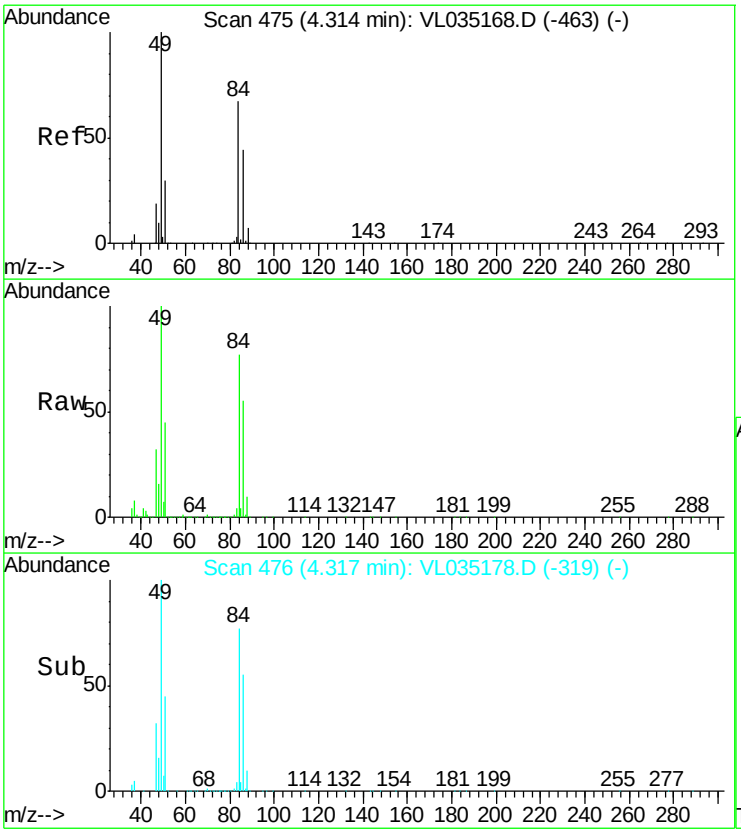
Tgt Ion: 45 Resp: 522442

Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.1	3.1#

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

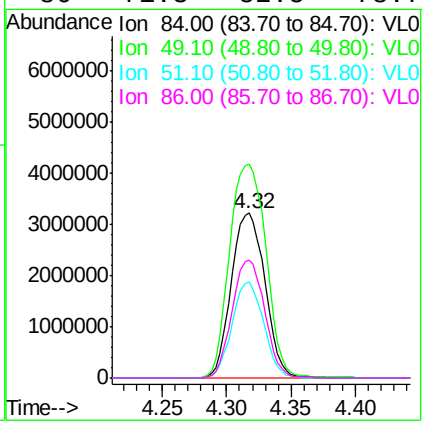


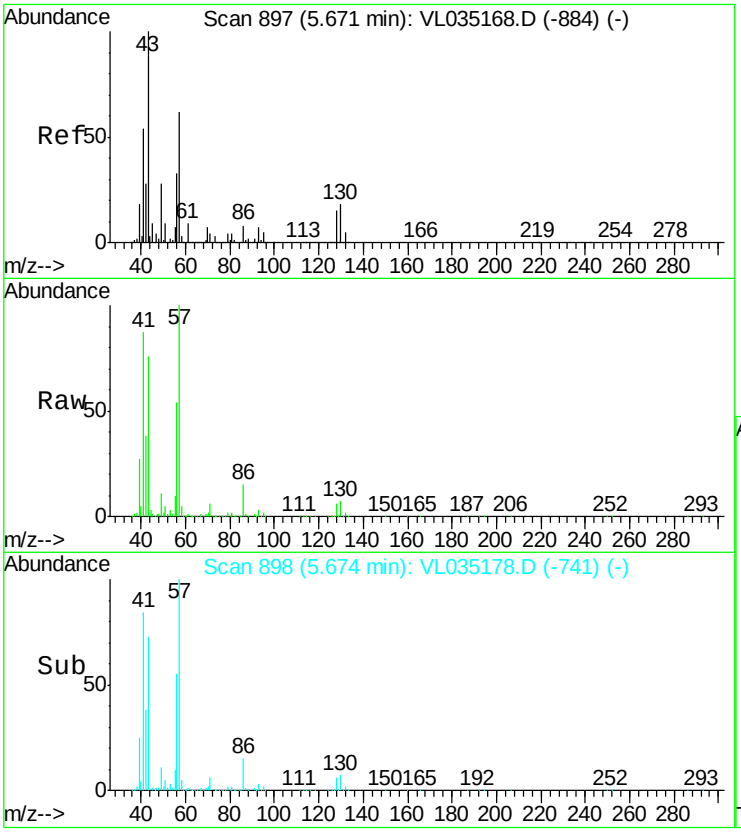


#20
Methylene Chloride
Concen: 98.534 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 84 Resp: 5862009

Ion	Ratio	Lower	Upper
84	100		
49	129.5	119.4	179.0
51	57.8	36.6	55.0#
86	71.3	52.5	78.7

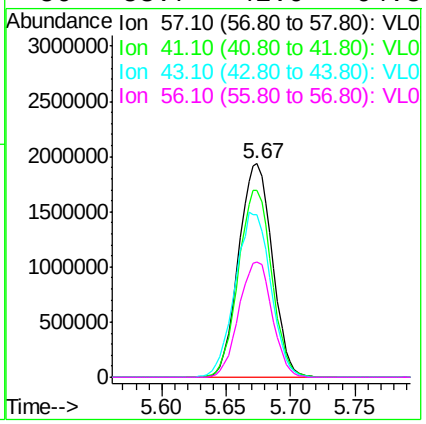




#26
Hexane
Concen: 37.496 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

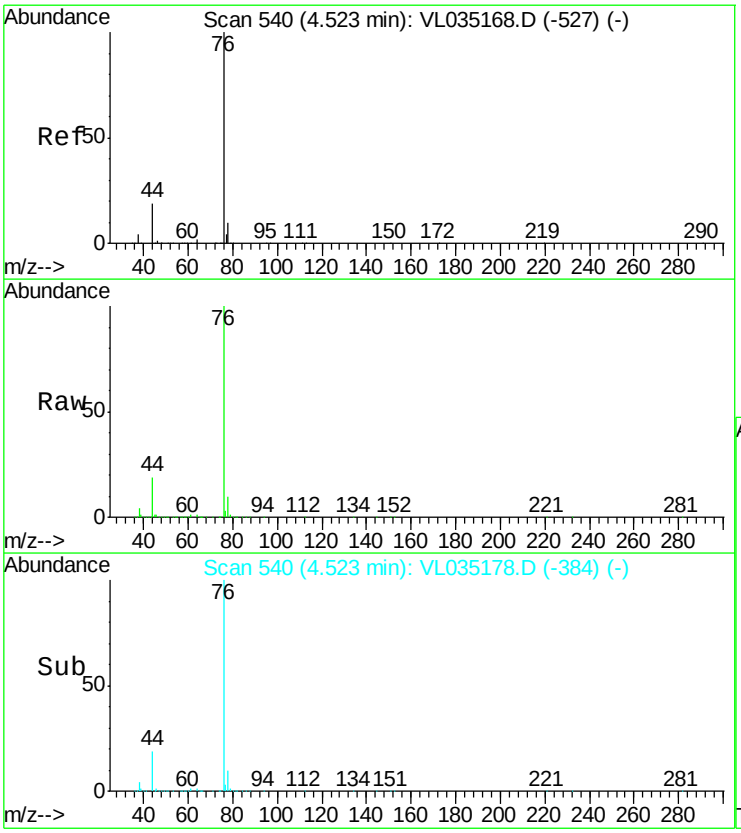
Tgt Ion: 57 Resp: 3507877

Ion	Ratio	Lower	Upper
57	100		
41	87.2	72.9	109.3
43	82.1	179.5	269.3#
56	53.7	42.9	64.3



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

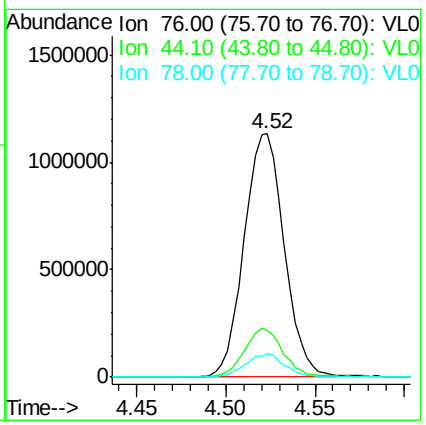
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

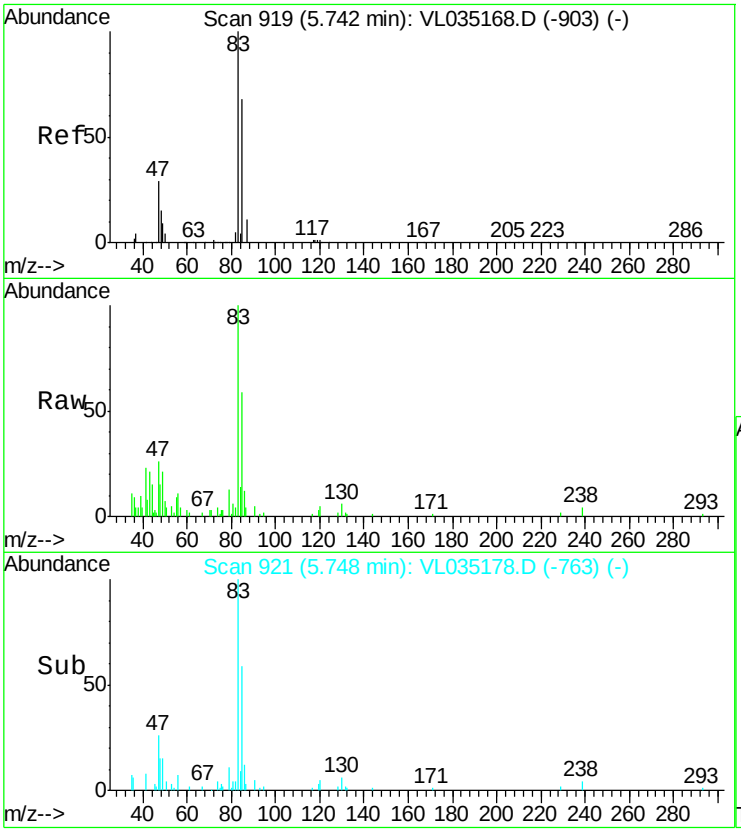


#27
Carbon Disulfide
Concen: 13.598 ppbv
RT: 4.52 min Scan# 540
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 76 Resp: 1776388

Ion	Ratio	Lower	Upper
76	100		
44	19.3	14.9	22.3
78	9.5	7.5	11.3

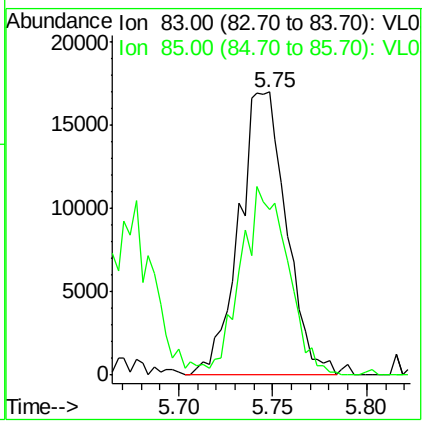




#29
Chloroform
Concen: 0.190 ppbv m
RT: 5.75 min Scan# 921
Delta R.T. 0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

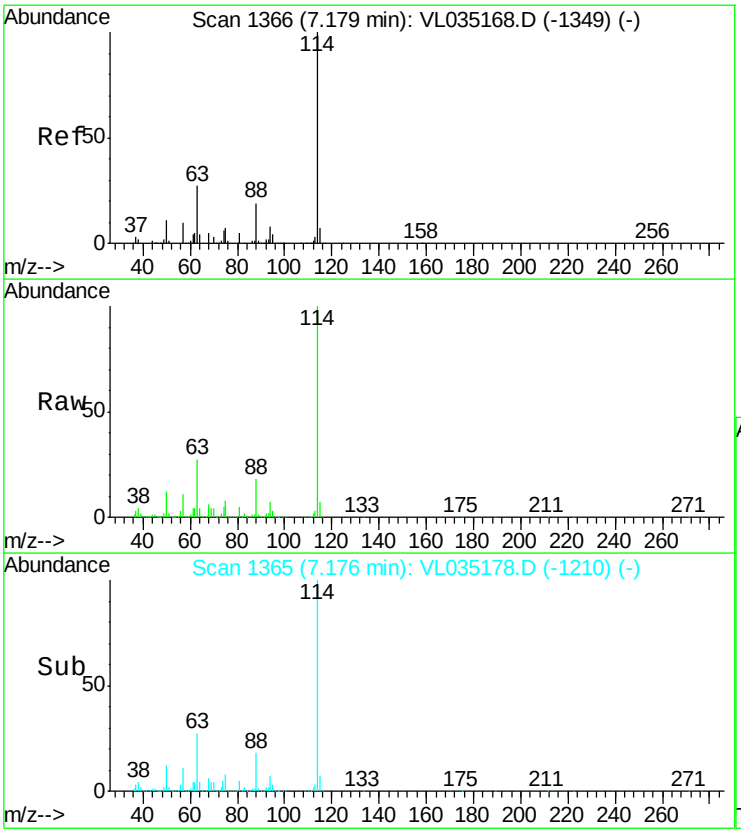
Tgt Ion: 83 Resp: 29871

Ion	Ratio	Lower	Upper
83	100		
85	58.7	54.3	81.5



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

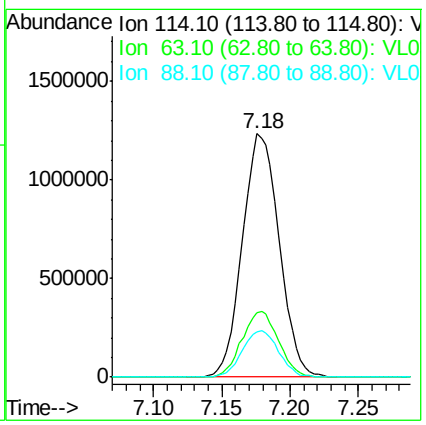
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

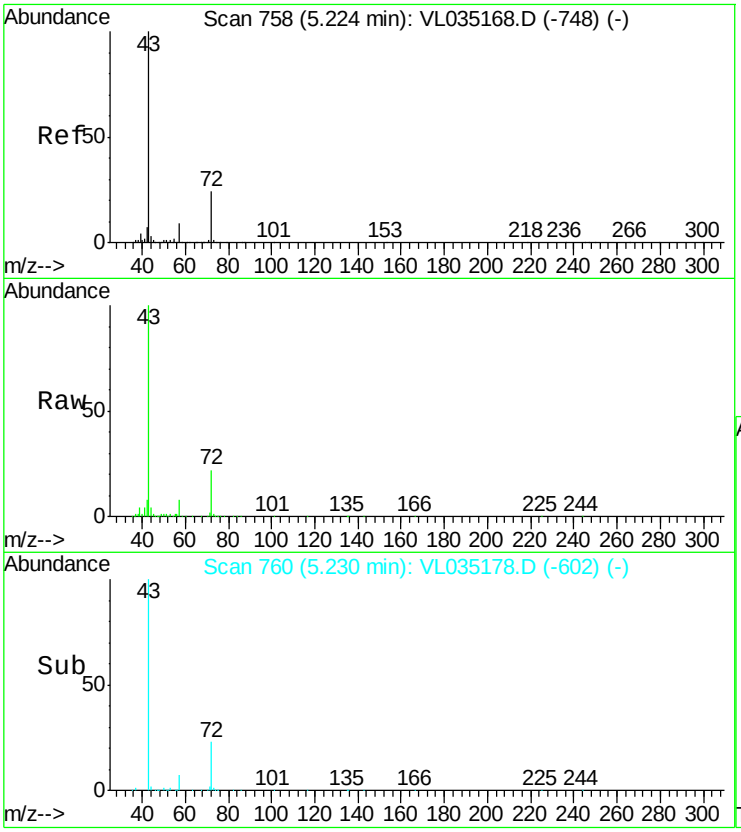


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion:114 Resp: 2312185

Ion	Ratio	Lower	Upper
114	100		
63	26.9	22.0	33.0
88	18.9	15.4	23.0

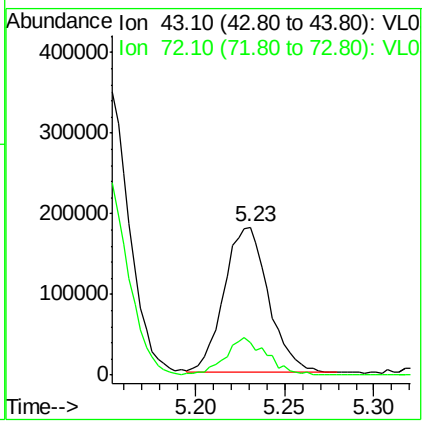




#34
2-Butanone
Concen: 2.543 ppbv
RT: 5.23 min Scan# 760
Delta R.T. 0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

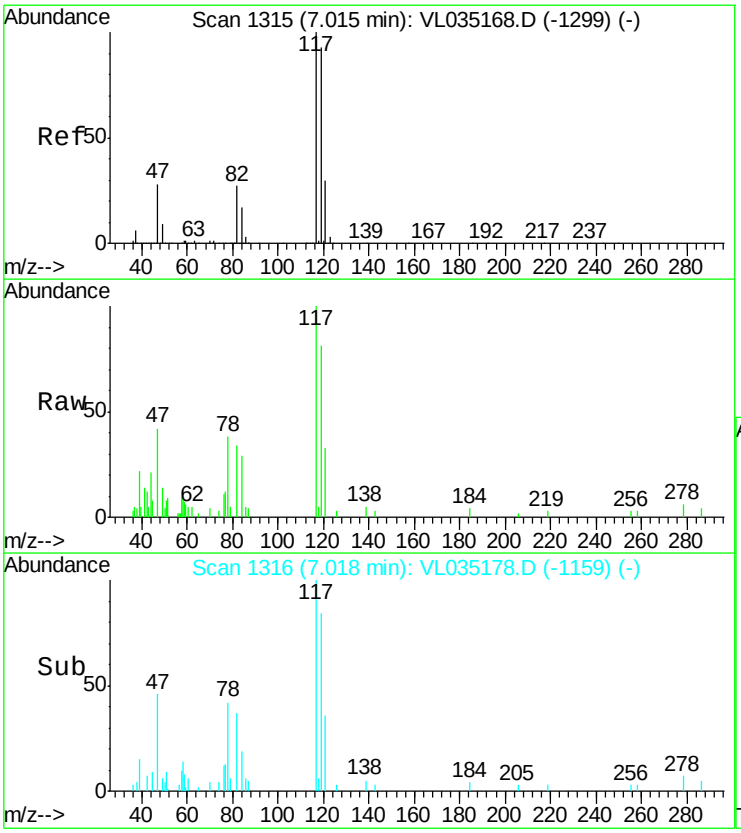
Tgt Ion: 43 Resp: 313863

Ion	Ratio	Lower	Upper
43	100		
72	23.9	18.6	28.0



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

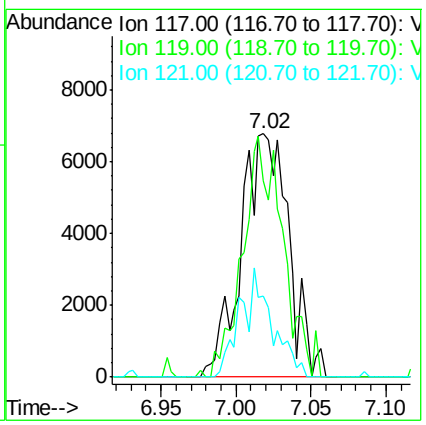
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

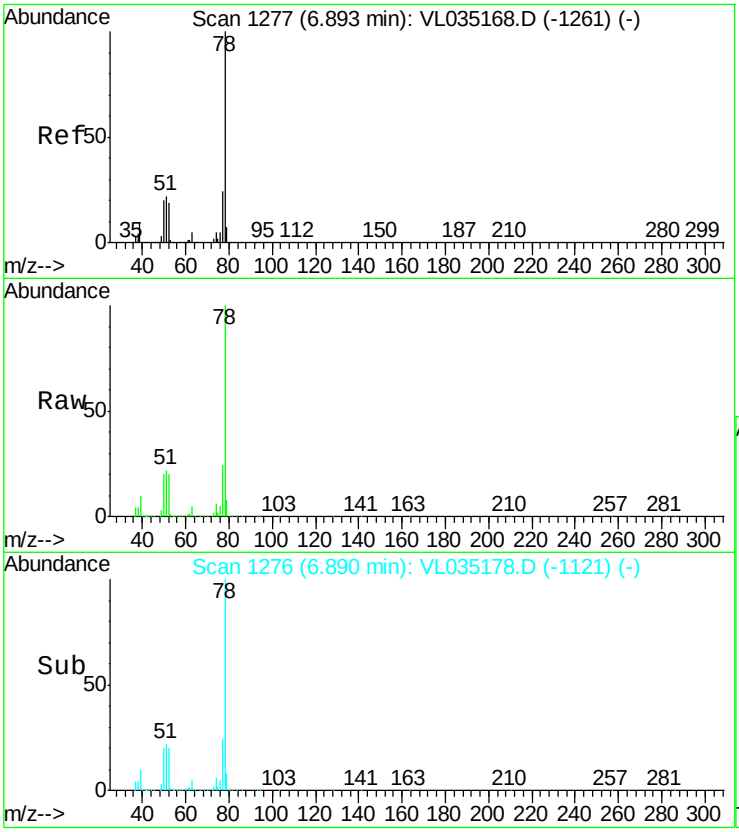


#35
Carbon Tetrachloride
Concen: 0.100 ppbv m
RT: 7.02 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion:117 Resp: 14985

Ion	Ratio	Lower	Upper
117	100		
119	80.5	74.8	112.2
121	33.3	24.2	36.2

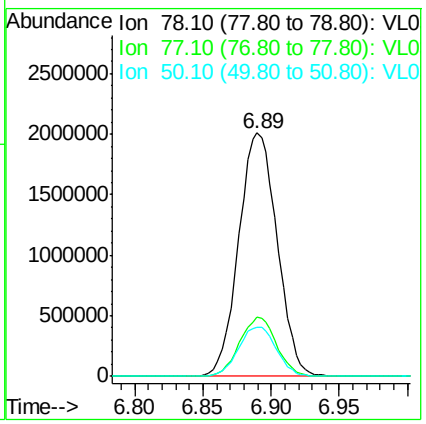




#36
Benzene
Concen: 23.489 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

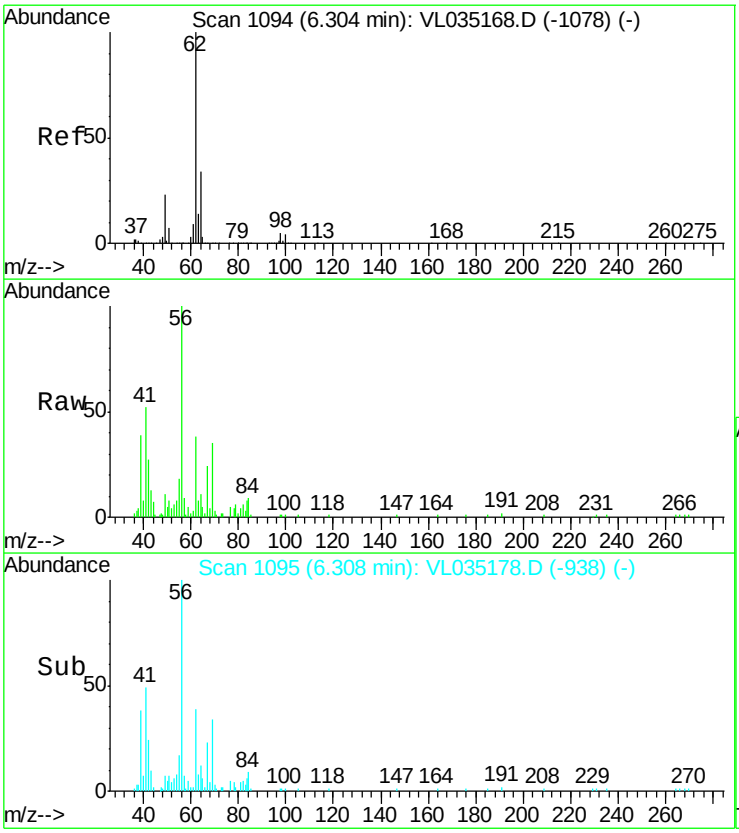
Tgt Ion: 78 Resp: 3930757

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.3	28.9
50	19.9	16.0	24.0



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

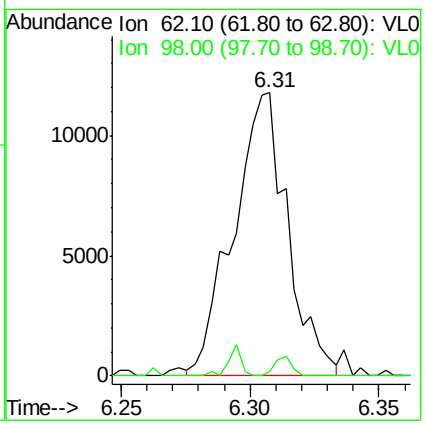
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

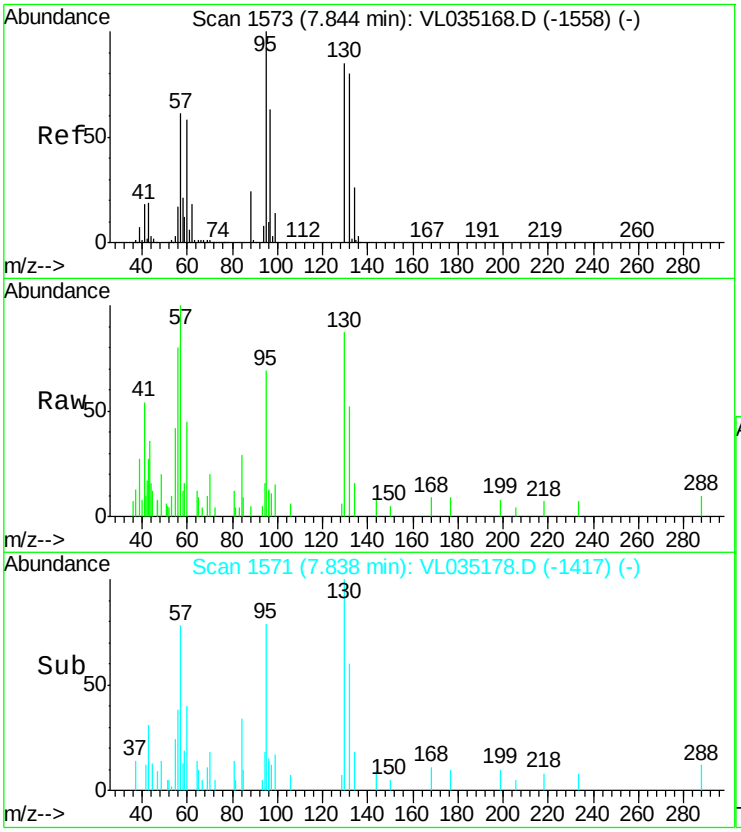


#37
1,2-Dichloroethane
Concen: 0.154 ppbv
RT: 6.31 min Scan# 1095
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 62 Resp: 17274

Ion	Ratio	Lower	Upper
62	100		
98	4.7	4.6	6.8

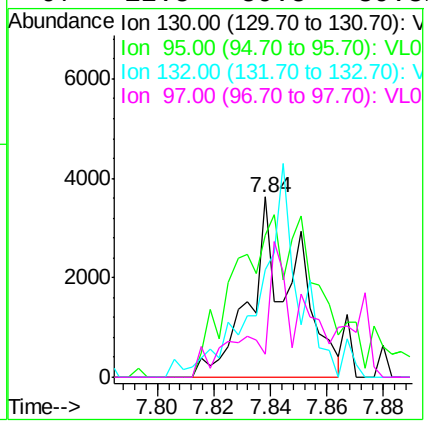




#38
Trichloroethene
Concen: 0.058 ppbv m
RT: 7.84 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

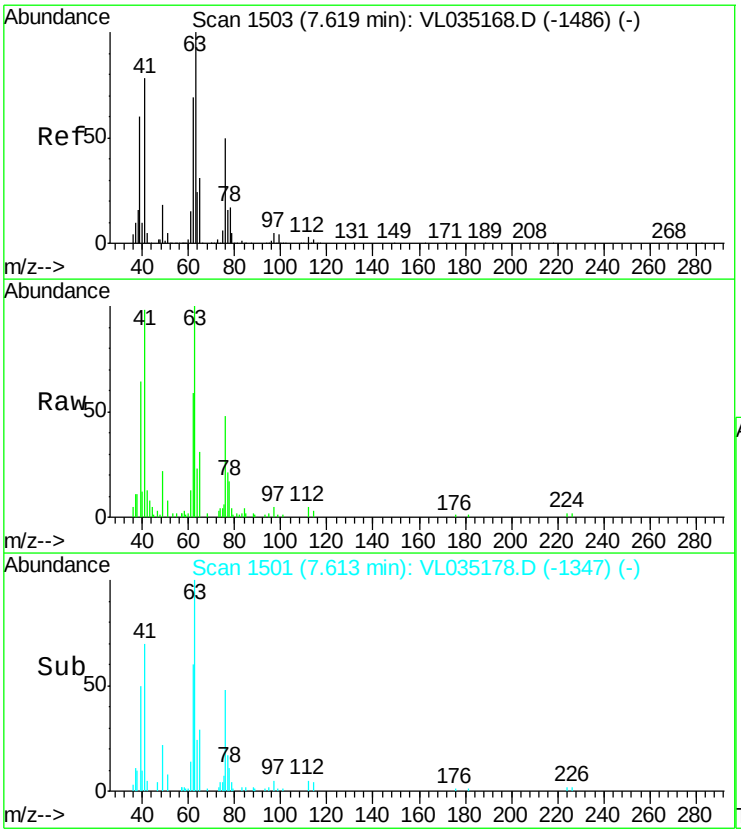
Tgt Ion:130 Resp: 3980

Ion	Ratio	Lower	Upper
130	100		
95	79.0	93.8	140.8#
132	59.6	75.0	112.4#
97	12.5	59.5	89.3#



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

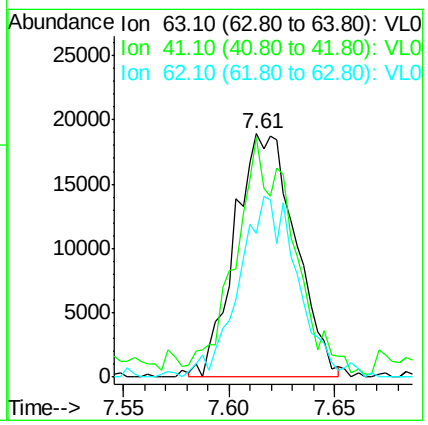
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

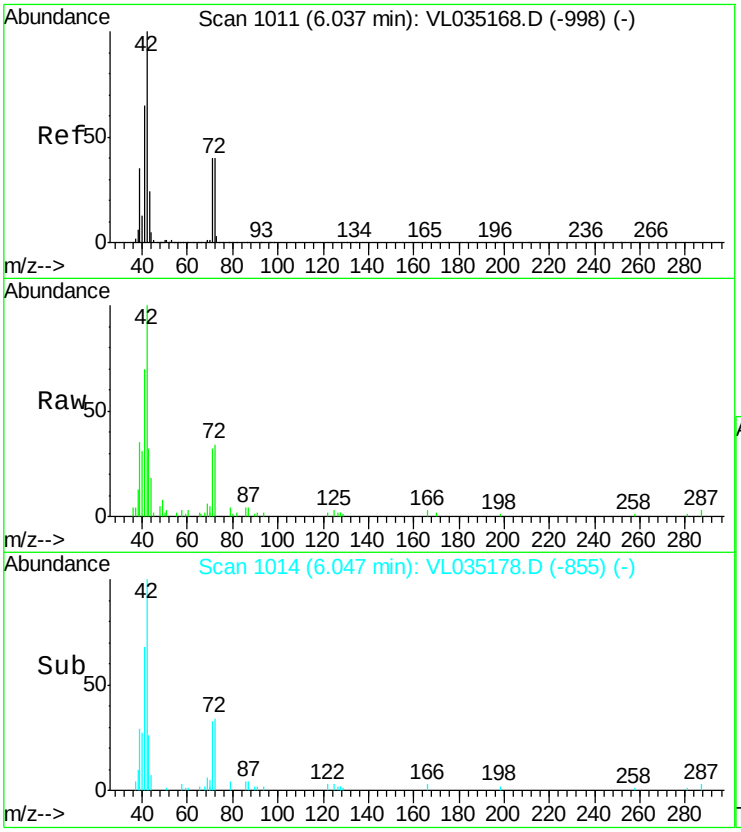


#39
1,2-Dichloropropane
Concen: 0.569 ppbv m
RT: 7.61 min Scan# 1501
Delta R.T. -0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 63 Resp: 37850

Ion	Ratio	Lower	Upper
63	100		
41	98.3	62.6	94.0#
62	59.2	55.0	82.6

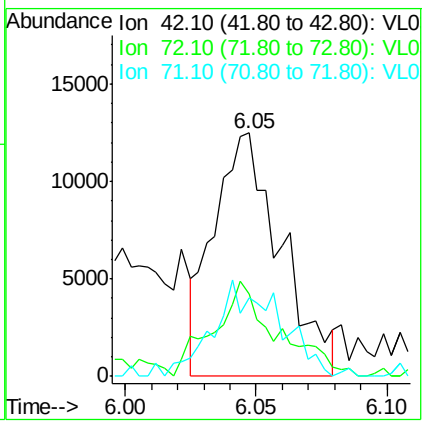




#41
Tetrahydrofuran
Concen: 0.364 ppbv m
RT: 6.05 min Scan# 1014
Delta R.T. 0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

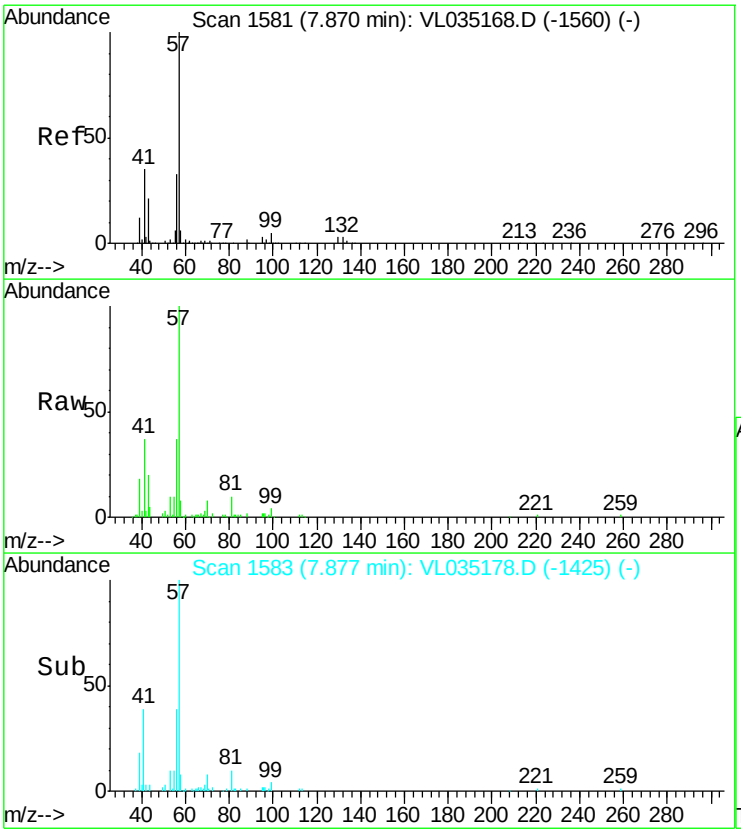
Tgt Ion: 42 Resp: 22464

Ion	Ratio	Lower	Upper
42	100		
72	57.3	33.4	50.2#
71	915.9	31.9	47.9#



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

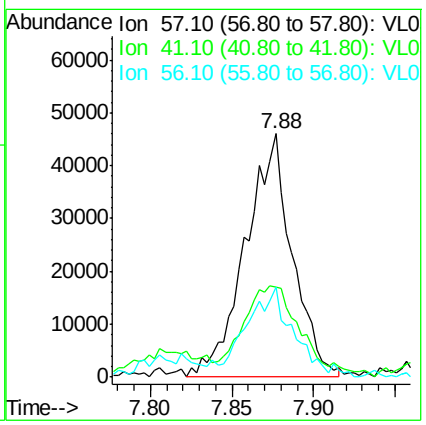
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

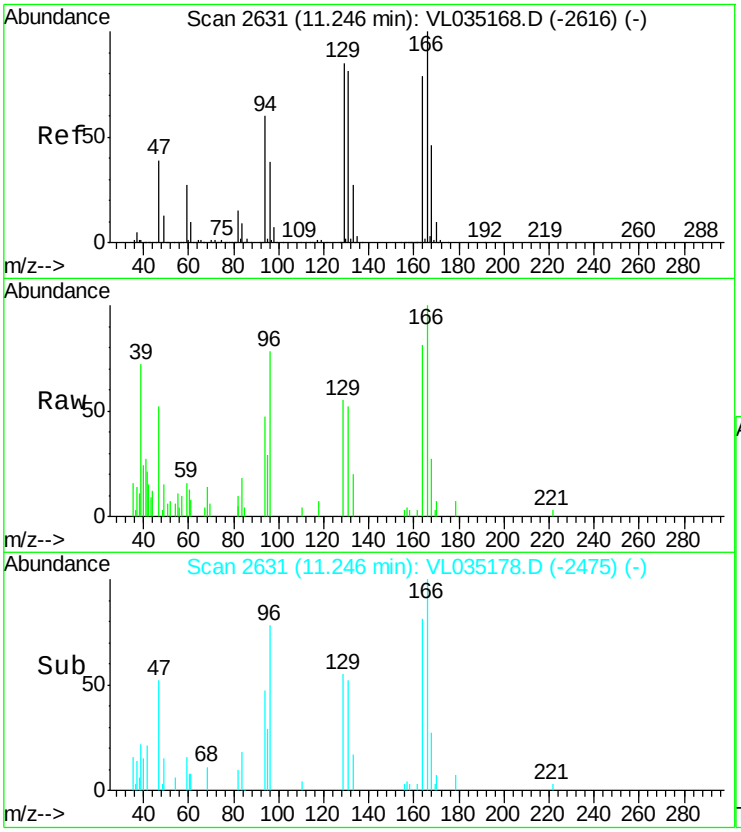


#44
2,2,4-Trimethylpentane
Concen: 0.317 ppbv m
RT: 7.88 min Scan# 1583
Delta R.T. 0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 57 Resp: 91628

Ion	Ratio	Lower	Upper
57	100		
41	42.8	27.0	40.6#
56	40.0	25.5	38.3#

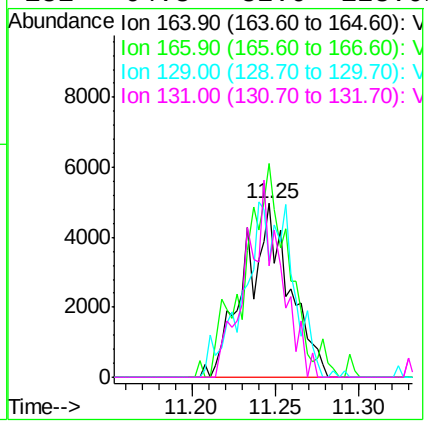




#52
Tetrachloroethene
Concen: 0.148 ppbv m
RT: 11.25 min Scan# 2631
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

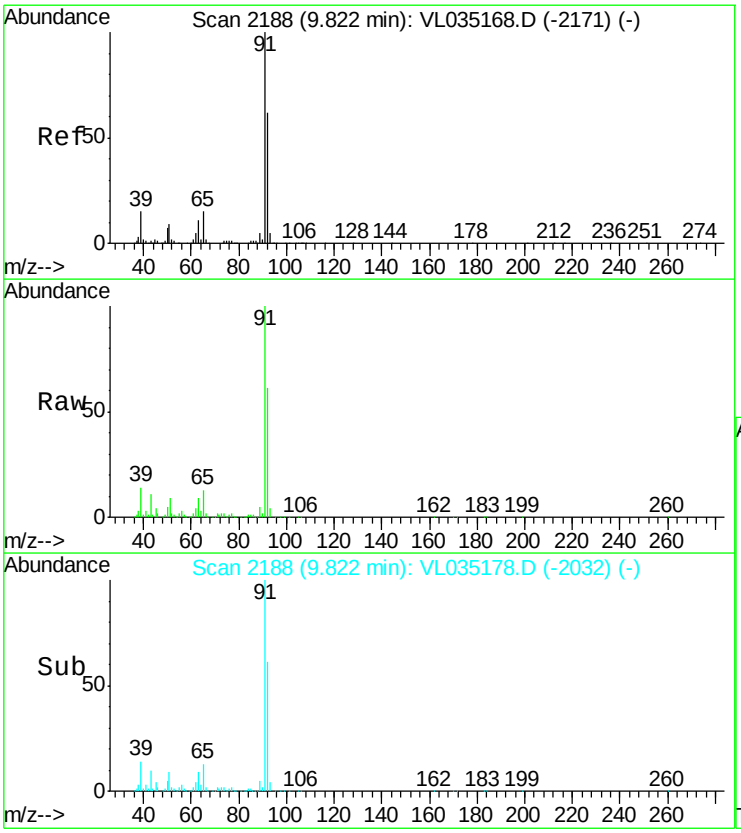
Tgt Ion:164 Resp: 9270

Ion	Ratio	Lower	Upper
164	100		
166	122.9	100.7	151.1
129	67.3	85.8	128.6#
131	64.3	82.0	123.0#



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

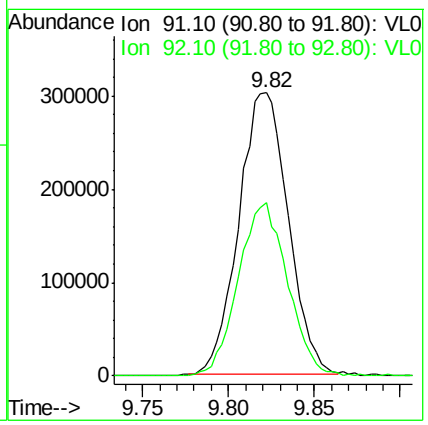
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

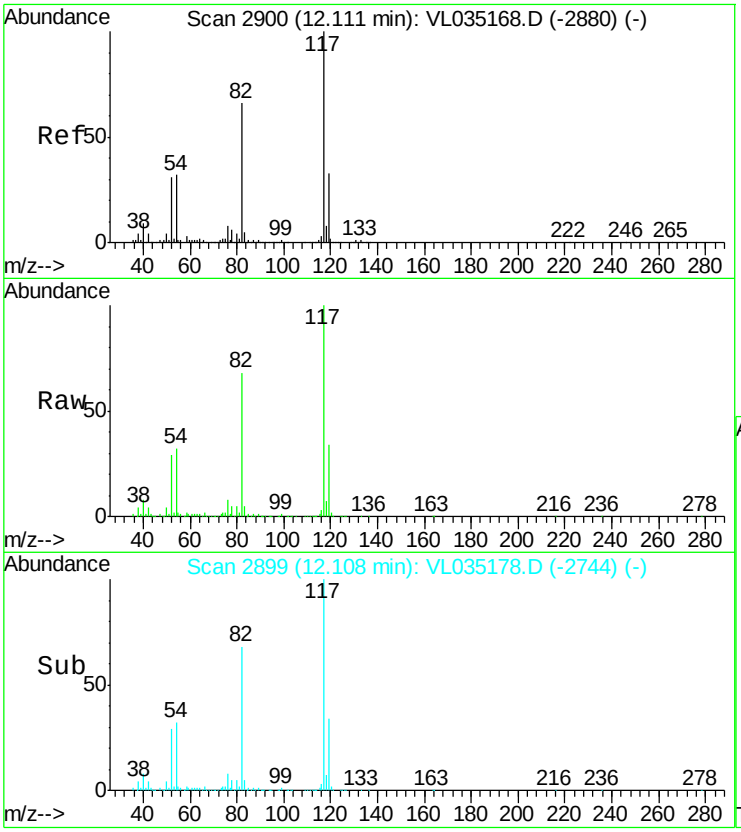


#53
Toluene
Concen: 3.414 ppbv
RT: 9.82 min Scan# 2188
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 91 Resp: 602970

Ion	Ratio	Lower	Upper
91	100		
92	61.2	48.4	72.6

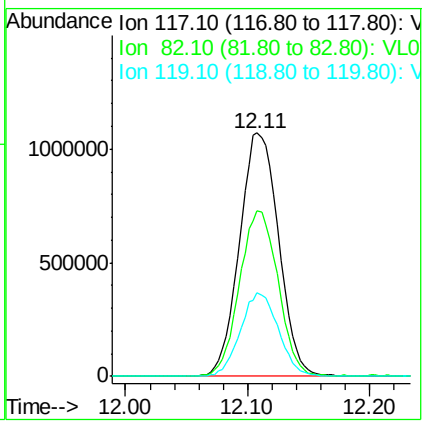




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

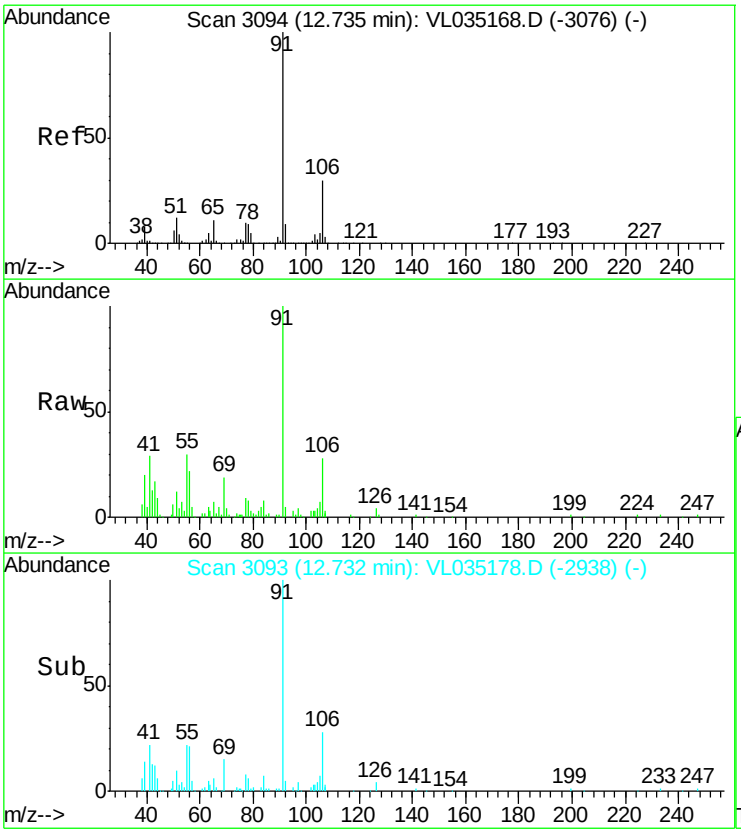
Tgt Ion:117 Resp: 2375238

Ion	Ratio	Lower	Upper
117	100		
82	67.0	52.3	78.5
119	33.3	24.9	37.3



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

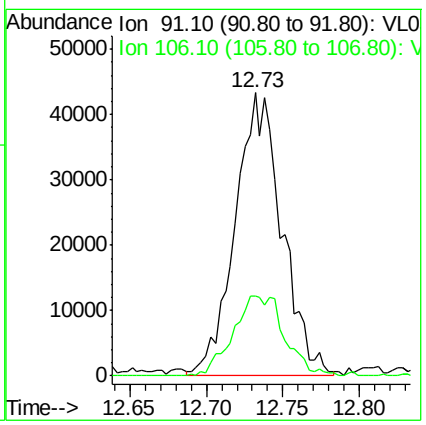
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

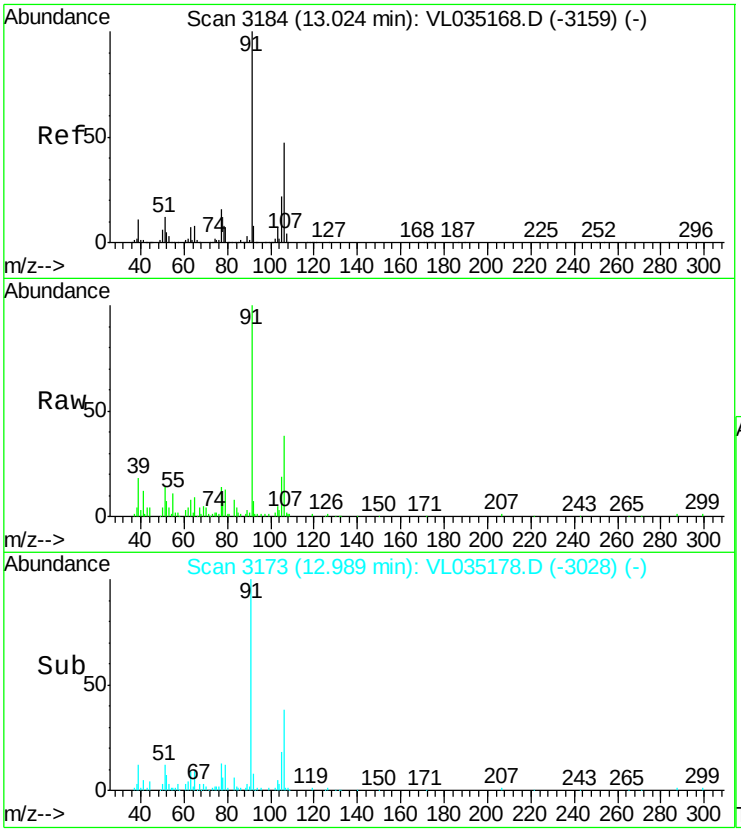


#58
Ethyl Benzene
Concen: 0.350 ppbv m
RT: 12.73 min Scan# 3093
Delta R.T. -0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 91 Resp: 91985

Ion	Ratio	Lower	Upper
91	100		
106	28.1	24.2	36.2





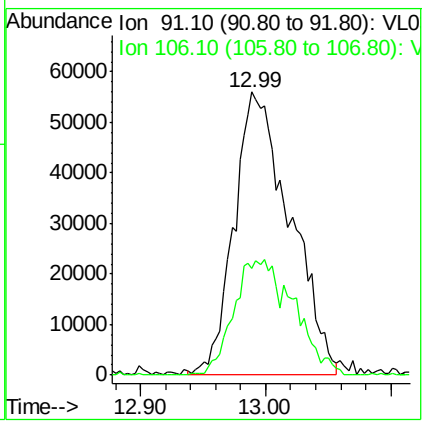
#59
m/p-Xylene
Concen: 0.747 ppbv m
RT: 12.99 min Scan# 3173
Delta R.T. -0.04 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

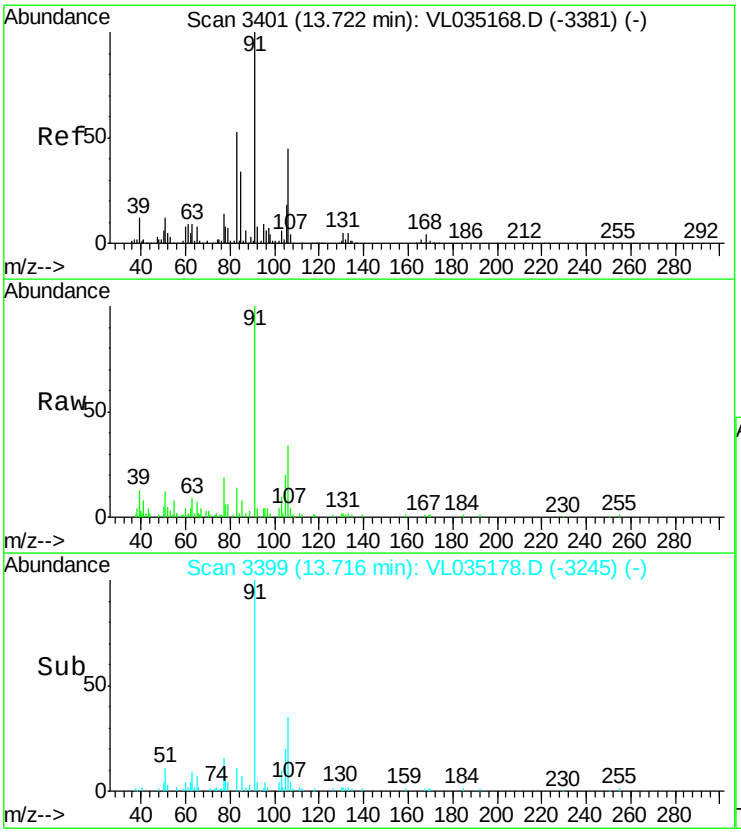
Tgt Ion: 91 Resp: 174816

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.2	54.2#

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

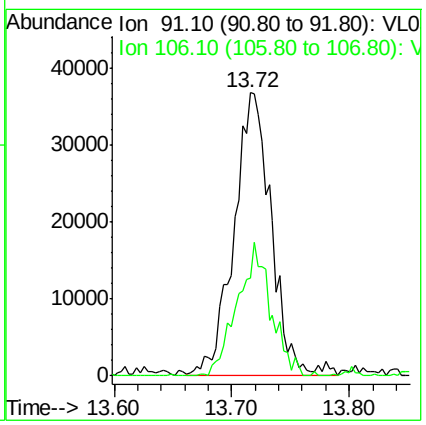


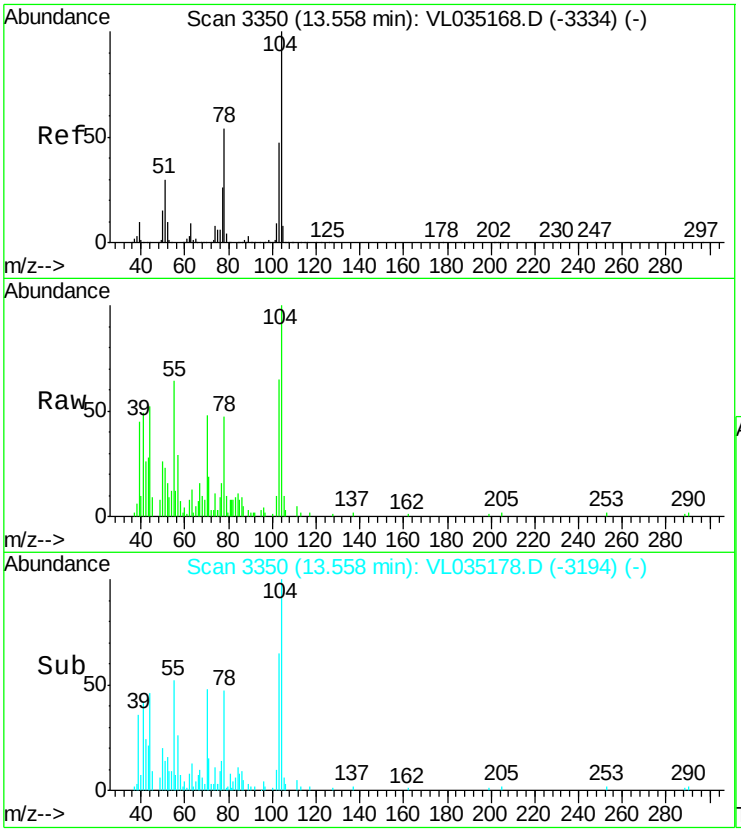


#60
o-Xylene
Concen: 0.350 ppbv m
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 91 Resp: 81691

Ion	Ratio	Lower	Upper
91	100		
106	41.8	22.1	66.3

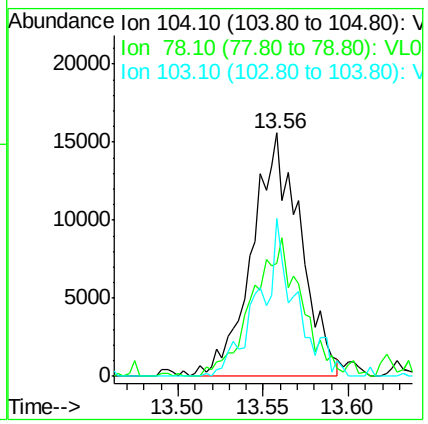




#61
Stvrene
Concen: 0.213 ppbv m
RT: 13.56 min Scan# 3350
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

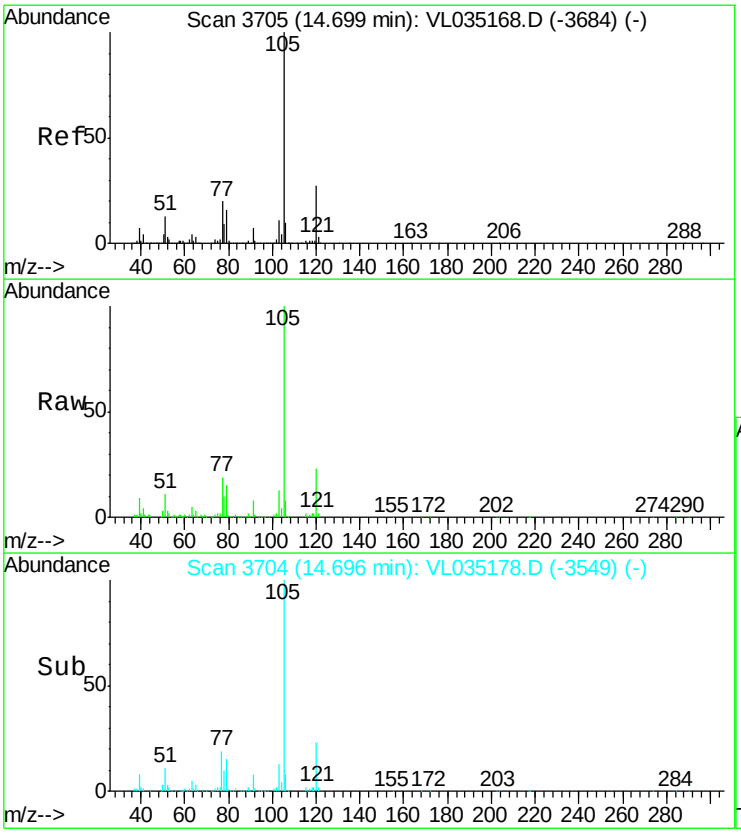
Tgt Ion:104 Resp: 30735

Ion	Ratio	Lower	Upper
104	100		
78	59.2	43.4	65.0
103	50.5	37.4	56.0



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

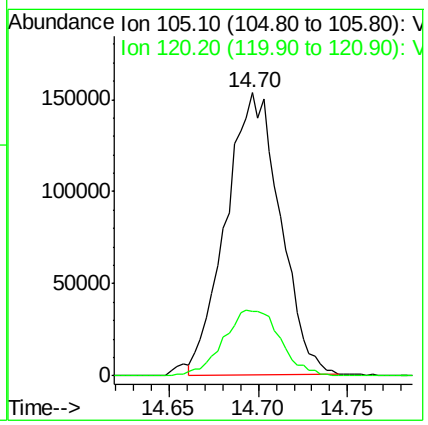
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

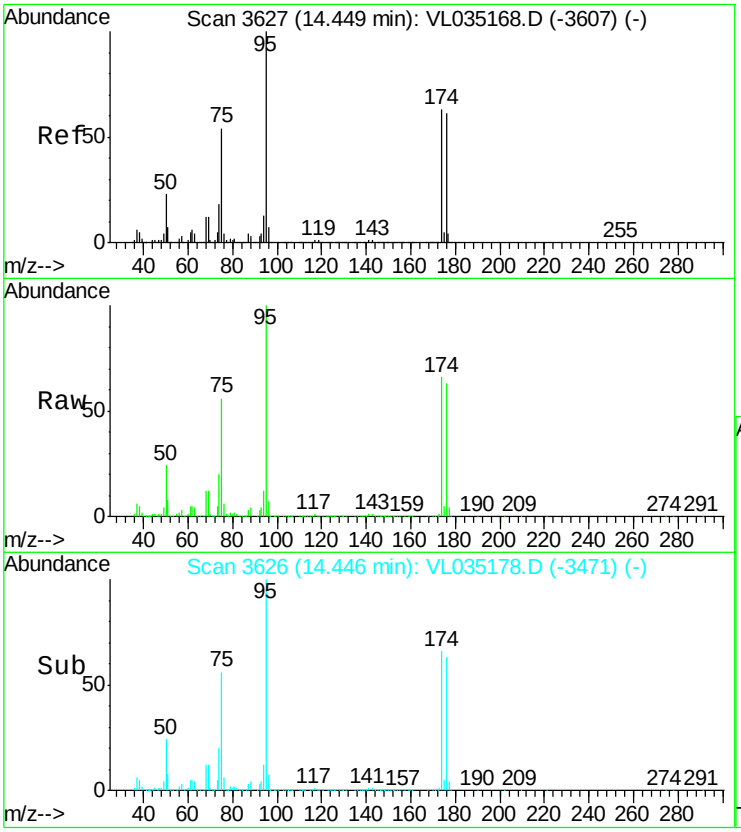


#62
Isopropylbenzene
Concen: 0.940 ppbv
RT: 14.70 min Scan# 3704
Delta R.T. -0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion:105 Resp: 325399

Ion	Ratio	Lower	Upper
105	100		
120	24.3	20.7	31.1

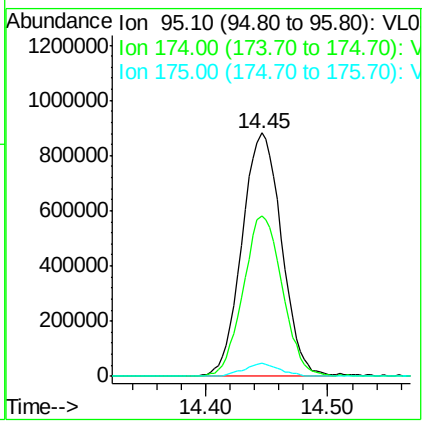




#68
1-Bromo-4-Fluorobenzene
Concen: 10.259 ppbv
RT: 14.45 min Scan# 3626
Delta R.T. -0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

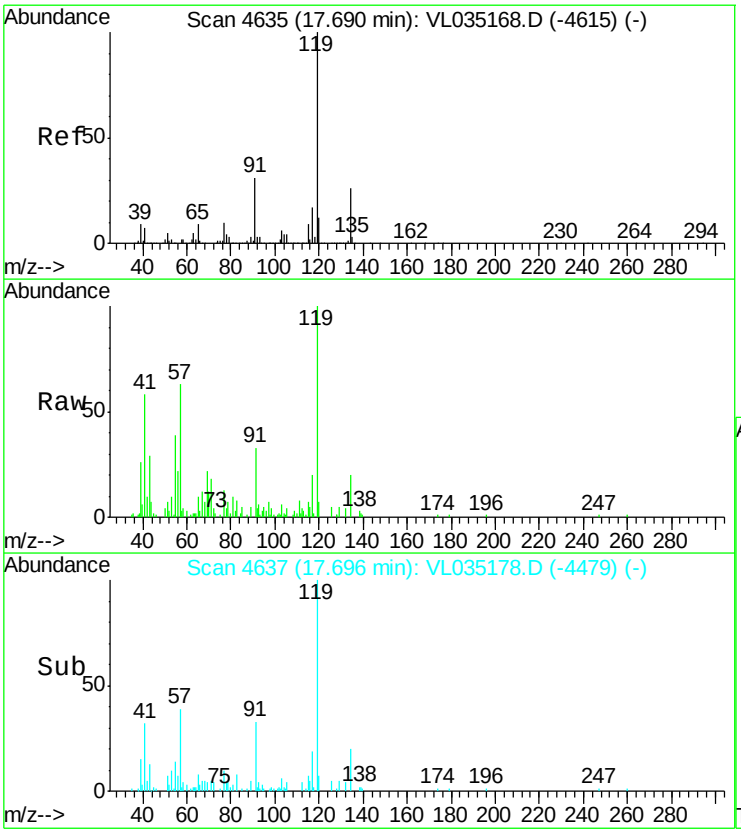
Tgt Ion: 95 Resp: 1979530

Ion	Ratio	Lower	Upper
95	100		
174	65.2	52.2	78.2
175	4.9	4.0	6.0



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

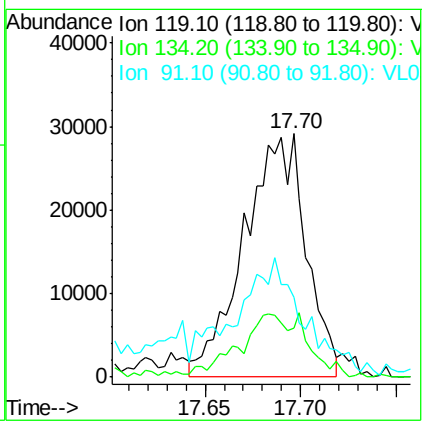
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

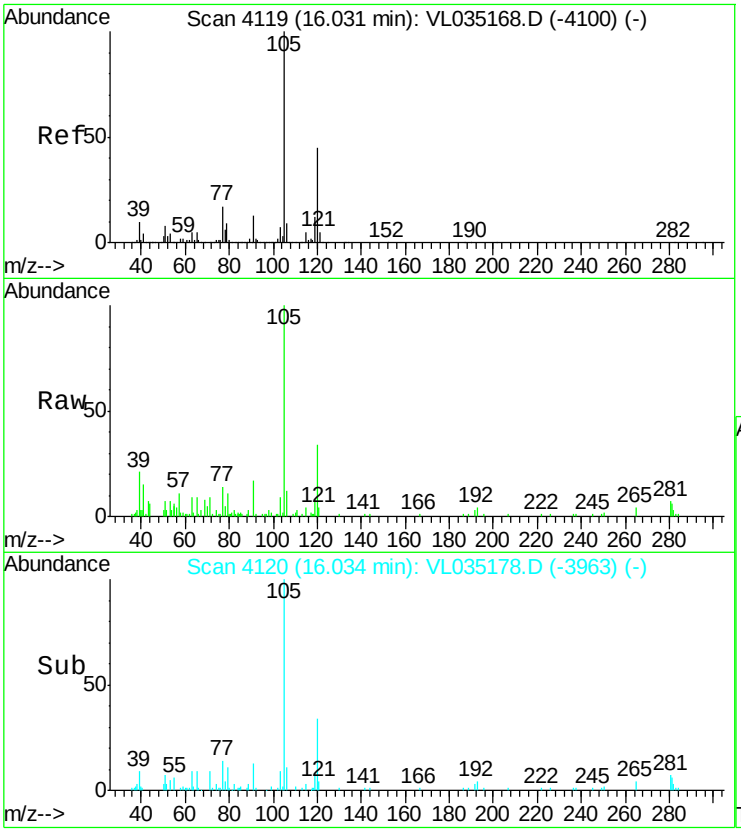


#69
p-Isopropyltoluene
Concen: 0.184 ppbv m
RT: 17.70 min Scan# 4637
Delta R.T. 0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion:119 Resp: 65380

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.8	31.2#
91	49.7	24.9	37.3#





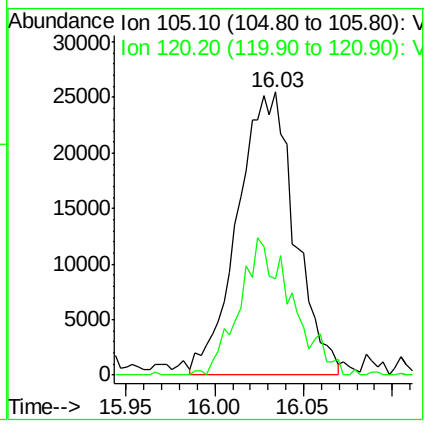
#73
1,3,5-Trimethylbenzene
Concen: 0.225 ppbv m
RT: 16.03 min Scan# 4120
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

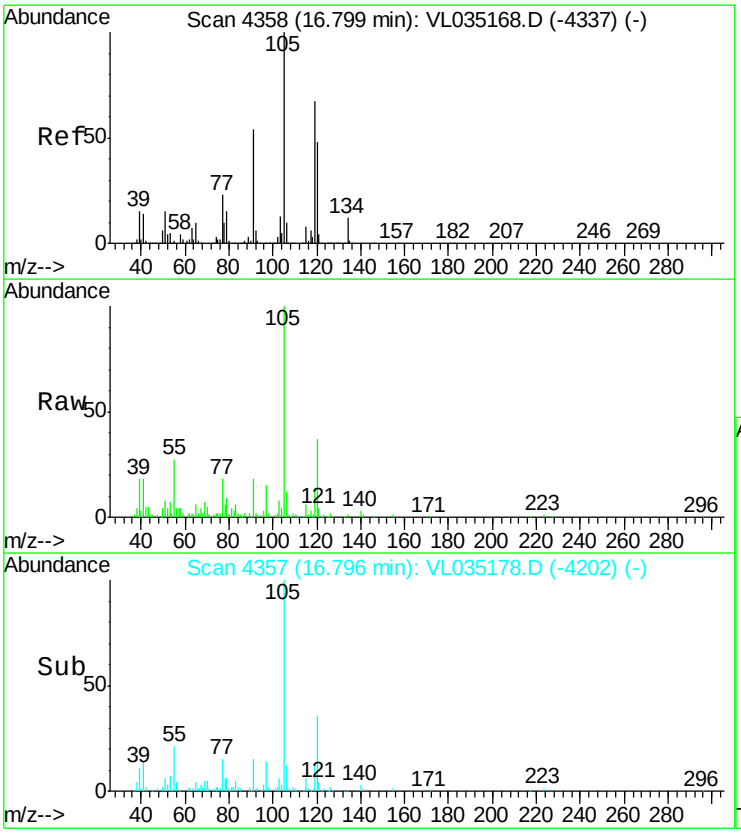
Tgt Ion:105 Resp: 57140

Ion	Ratio	Lower	Upper
105	100		
120	34.3	36.2	54.2#

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM

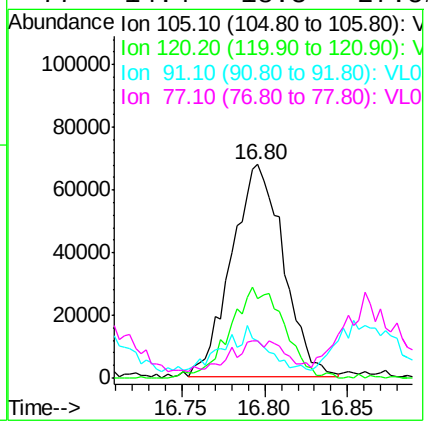


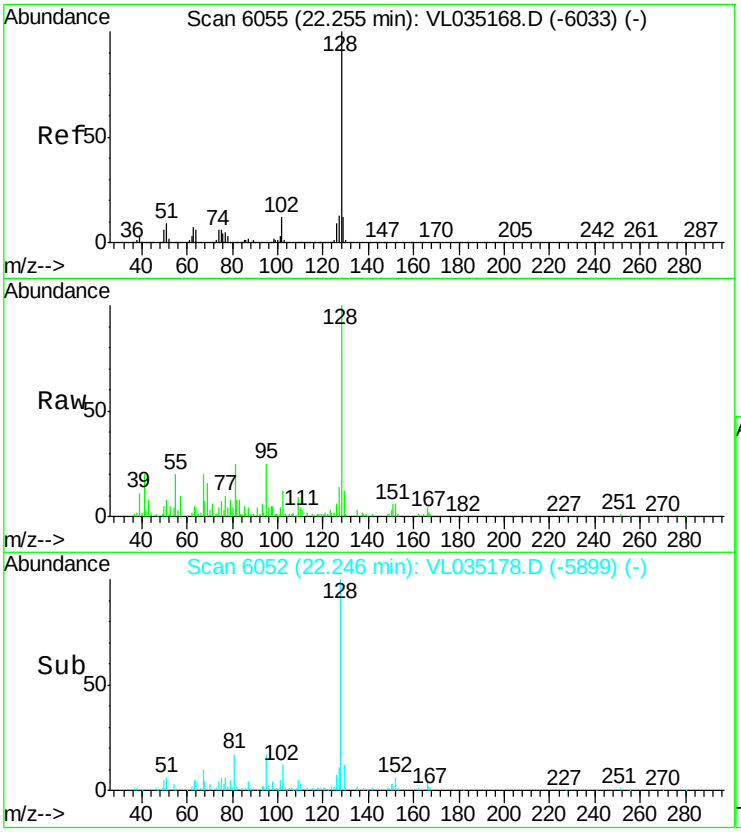


#74
1,2,4-Trimethylbenzene
Concen: 0.528 ppbv
RT: 16.80 min Scan# 4357
Delta R.T. -0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion:105 Resp: 147889

Ion	Ratio	Lower	Upper
105	100		
120	37.3	38.6	57.8#
91	12.7	43.6	65.4#
77	14.4	18.3	27.5#

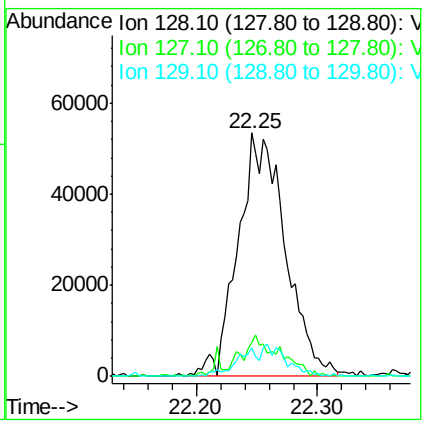




#79
Naphthalene
Concen: 0.793 ppbv m
RT: 22.25 min Scan# 6052
Delta R.T. -0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion:128 Resp: 143771

Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.8	16.2
129	11.6	9.4	14.2



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
MMDadoda
7/9/2020 12:02:46 PM